

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S45	266	380/281.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/22 11:50
S44	59	380/233.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/22 11:50
S73	523	((convert\$ conversion\$) same (dvb (digital adj video adj broadcast\$3)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 10:48
S74	12	((convert\$ conversion\$) with key\$2) same (dvb (digital adj video adj broadcast\$3))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 11:01
S75	614	((convert\$ conversion\$) same (dvb (digital adj video adj broadcast\$3))) and (receiver\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 11:02
S78	6	("5953418" "6195751" "6466671"). pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 11:20
S79	109	((convert\$ conversion\$) same (dvb (digital adj video adj broadcast\$3))) and (receiver\$3) and (conditional\$3 adj access\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 18:09
S77	43	((convert\$ conversion\$) same (dvb (digital adj video adj broadcast\$3))) and (receiver\$3) and (conditional\$3 adj access\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:04

EAST Search History

S81	0	(dvb (digital adj video adj broadcast\$3)) and ((old\$3 previous\$3) adj receiver\$3) and ((new\$3 recent\$3) adj receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:06
S80	0	(dvb (digital adj video adj broadcast\$3)) and ((old\$3 previous\$3) adj receiver\$3) and ((new\$3 recent\$3) adj receiver\$3) and (conditional\$3 adj access\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:06
S82	5	(dvb (digital adj video adj broadcast\$3)) and ((old\$3 previous\$3) near2 receiver\$3) and ((new\$3 recent\$3) near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:08
S85	0	((transition\$4 migrat\$5) near2 legacy near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:12
S84	0	(dvb (digital adj video adj broadcast\$3)) and ((transition\$4 migrat\$5) near2 legacy near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:12
S83	8	(dvb (digital adj video adj broadcast\$3)) and ((legacy old\$3 previous\$3) near2 receiver\$3) and ((new\$3 recent\$3) near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:12
S87	10	((legacy) near2 receiver\$3) and ((new\$3 recent\$3) near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:13
S86	62	((legacy old\$3 previous\$3) near2 receiver\$3) and ((new\$3 recent\$3) near2 receiver\$3) and ((encod\$3 encrypt\$ en-cod\$3 en\$crypt\$3) with key\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/26 20:13

EAST Search History

S17	2431	380/210,212,223,227,231,273,33,278,28,45,284.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/28 16:31
S91	0	"2001789861"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 10:59
S90	0	"2001789861".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:00
S92	0	"A SYSTEM AND METHOD FOR PROCESSING MULTIPLE BROADCAST MULTIMEDIA STREAMS SYSTEME ET PROCEDE DE TRAITEMENT DE FLUX RADIO MULTIMEDIA MULTIPLE".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:01
S93	0	"A SYSTEM AND METHOD FOR PROCESSING MULTIPLE BROADCAST MULTIMEDIA STREAMS".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:02
S95	324	"WEBTV NETWORKS ".as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:18
S94	16	"moxi digital".as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:18
S96	3	"WEBTV NETWORKS ".as. and "compressing continuous indistinct ".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:26
S97	0	"2001871415".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:27

EAST Search History

S10 1	1302	perlman.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:28
S10 0	0	"group of channels ".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:28
S99	0	"group of channels with second group of channels".ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 11:28
S10 2	19	perlman.in. and channel.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:28
S10 3	20	((old\$3) near2 (receiver\$3)) same (format\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:34
S10 5	34	(DVBS and DVBS\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:35
S10 4	0	(DVBS and DVBS\$2) same (save\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:35
S10 7	1	(DVBS and (DVBS near1 "2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:36
S10 6	1	(DVBS same (DVBS near1 "2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:36
S10 9	31	((DVB near1 S) same (DVB near1 "S2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:37

EAST Search History

S11 0	1	((DVB near1 S) same (DVB near1 "S2")) and encrypt\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:38
S11 1	3	S108 not S109	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:42
S10 8	34	((DVB near1 S) and (DVB near1 "S2"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 18:42
S11 3	0	"2001871415".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 19:28
S11 2	11	(DVB with standard) same (("not" non) near1 standard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 19:28
S11 4	0	"20010871415".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/31 19:29
S11 5	2	"7089211".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:17
S11 6	59805	((cable (set near1 top)) near1 box\$3) (((digital adj content\$3) cable multimedia broadcast\$3) with receiver\$2) and (en\$crypt\$ en\$cod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:23
S11 7	47870	((cable (set near1 top)) near1 box\$3) (((digital adj content\$3) cable multimedia broadcast\$3) with receiver\$2) same (en\$crypt\$ en\$cod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:24
S11 8	47022	((cable (set adj top)) adj box\$3) (((digital adj content\$3) cable multimedia broadcast\$3) with receiver\$2) same (en\$crypt\$ en\$cod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:25

EAST Search History

S11 9	46100	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia broadcast\$3) with receiver\$2) same (en\$crypt\$ en\$cod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:26
S12 0	7607	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia broadcast\$3) with receiver\$2)) same (en\$crypt\$ en\$cod\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:27
S12 1	1532	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia broadcast\$3) with receiver\$2)) same (en\$crypt\$ en\$cod\$3) same key\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:29
S12 3	748	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia) with receiver\$2)) same (en\$crypt\$ en\$cod\$3) with key\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:33
S12 2	1251	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia broadcast\$3) with receiver\$2)) same (en\$crypt\$ en\$cod\$3) with key\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:33
S12 4	339	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia) with receiver\$2)) same (en\$crypt\$ en\$cod\$3) with key\$3 and ("713"/\$. ccls. "380"/\$.ccls. "726"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:35
S12 5	37	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia) with receiver\$2)) same (different with (en\$crypt\$ en\$cod\$3) with key\$3) and ("713"/\$.ccls. "380"/\$. ccls. "726"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:36
S12 7	26	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia) with receiver\$2)) same (different with (en\$crypt\$ en\$cod\$3) with (format\$3 algorithm\$3 key\$3)) same (de\$crypt\$ de\$cod\$4) and ("713"/\$.ccls. "380"/\$.ccls. "726"/\$. ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:38
S12 6	199	((cable (set adj top)) adj box\$3) (((digital adj content\$3) multimedia) with receiver\$2)) same ((different with (en\$crypt\$ en\$cod\$3) with (format key\$3)) HDTV CA) and ("713"/\$.ccls. "380"/\$.ccls. "726"/\$. ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 16:43

EAST Search History

S13 0	5280	((pluralit\$3 different\$3 various\$3 type\$3) adj (receiver\$3 box\$2 device\$3)) with (channel\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:26
S12 8	35615	((pluralit\$3 different\$3 various\$3 type\$3) near2 (receiver\$3 box\$2 device\$3)) with (content\$3 channel\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:26
S13 1	46	((pluralit\$3 different\$3 various\$3 type\$3) adj (receiver\$3 box\$2 device\$3)) with (channel\$3) with key\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:28
S13 2	33	((pluralit\$3 different\$3 various\$3 type\$3) adj (receiver\$3 box\$2 device\$3)) with (channel\$3) with key\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:29
S13 3	32	((pluralit\$3 different\$3 various\$3 type\$3) adj (receiver\$3 box\$2 device\$3)) with (channel\$3) with key\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:33
S13 4	39	((pluralit\$3 different\$3 various\$3 type\$3 ((DVB adj encryption) and (ca))) adj (tuner\$3 receiver\$3 box\$2 device\$3)) with (channel\$3) with key\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:34
S13 5	7	S134 not S133	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:35
S13 6	31	(integrat\$4 migrat\$4) same (legacy adj receiver\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:36
S13 7	2	(integrat\$4 migrat\$4) with (legacy adj receiver\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:37
S13 8	54	(integrat\$4 migrat\$4) with ((analog legacy) adj receiver\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 12:56

EAST Search History

S14 0	38	(transition\$4) with (dvb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:01
S13 9	8	(transition\$4) with ((analog legacy) adj receiver\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:01
S14 3	50	S141 not S142	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:05
S14 2	13	(transition\$4 upgrad\$3) with (dvb) with receiver\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:05
S14 6	128	S145 not S141	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:09
S14 4	534	(phase) with (dvb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:09
S14 1	63	(transition\$4 upgrad\$3) with (dvb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:09
S14 5	128	(transition\$4 upgrad\$3) with (hdtv)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:10
S14 8	25	(transition\$4 upgrad\$3) with (hdtv and analog\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:12
S14 7	3	(transition\$4 upgrad\$3) with (hdtv and mpeg\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:12

EAST Search History

S14 9	19	(transition\$4 upgrad\$3) with (hdtv with analog\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 13:13
S12 9	25680	((pluralit\$3 different\$3 various\$3 type\$3) near2 (receiver\$3 box\$2 device\$3)) with (channel\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 18:32
L1	25680	((pluralit\$3 different\$3 various\$3 type\$3) near2 (receiver\$3 box\$2 device\$3)) with (channel\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 18:32
L2	11	L1 and 380/223,233,281.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/17 18:33

[File 2] **INSPEC** 1898-2007/Jul W4
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[File 248] **PIRA** 1975-2007/Jul W1
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Set	Items	Description
S1	56144	S (COMMERCIAL OR VIDEO OR SCRAMBL??? OR MULTIMEDIA OR SIMULCAST??? OR BROADCAST???) (3N) (CHANNEL?? OR FREQUENCIES OR FREQUENCY OR STREAM?? OR KEY?? OR FORMAT?)

S2 7008 S (EPG OR PROGRAM()GUIDE?? OR PROGRAM? OR SOFTWARE OR APG OR IPG OR
ADVANCED OR (ELECTRONIC OR INTERACTIVE)) (5N) (PROGRAM? () (GUIDE?? OR MENU?? OR LIST??
OR SCHEDULE?? OR GRID??))

S3 3274 S (ENCRYPT??? OR ENCOD??? OR COMPRESS??? OR EKT OR
ENCRYPT?()KEY()TRANSPORT OR SALT OR SPEECH()APPLICATION()LANGUAGE()TAGS) (3N) (S1 OR S2)

S4 8 S (DECRYPT? OR DECOD??? OR DECOMPRESS??? OR MPEG?) (3N)S2

S5 27252 S (PRIMARY OR FIRST OR ONE OR MASTER OR INTITIAL OR OLD OR OUTDATED OR
OLDER OR OLDEST) (3N) (RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)

S6 38085 S (SECOND? OR OTHER OR NEXT OR SLAVE OR NEW OR NEWER OR LATEST OR
MODERN OR DIFFERENT) (3N) (SATELLITE()DISH RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)

S7 8563 S LEGACY(3N)SYSTEM??

S8 857 S AU=(GILLON, W? OR GILLON W? OR PERLMAN, S? OR PERLMAN S?)

S9 405658 S (STB OR SET()TOP()BOX OR SETTOP()BOX OR RECEIVER?? OR STT OR
SET()TOP()TERMINAL?? OR (CATV OR SUBSCRIBER OR CABLE) (3N) (BOX OR CONVERTER))

S10 6 RD S4 (unique items)

S11 3 S S10 NOT PY>2001

S12 129 S S3(20N)S9

S13 1 S S12(20N) (S5:S7)

S14 0 S S13 NOT PY>2001

S15 3 S S12 AND (S5:S7)

S16 2 S S15 NOT (S11 OR S13 OR PY>2001)

S17 0 S S12 AND S8

S18 47 S (DECRYPT? OR DECOD??? OR DECOMPRESS??? OR MPEG?) (20N)S2

S19 1 S S18 AND S5

S20 1 S S19 NOT (S11 OR S13 OR S16)

S21 0 S S18 AND S6

S22 0 S S18 AND S7

S23 1 S S3(3N)S5

S24 0 S S23 NOT (S11 OR S13 OR S16)

S25 0 S S3(3N)S6

S26 2 S S3(20N)S6

S27 2 RD (unique items)

S28 2 S S27 NOT (S11 OR S13 OR S16 OR S20)

S29 0 S S18 AND S8

11/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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06412044 **INSPEC Abstract Number:** B9612-6420D-003, C9612-7410F-063

Title: Developing for interactive services in digital TV

Author Kraal, C.J.

Author Affiliation: Irdeto Consultants, Netherlands

Conference Title: International Broadcasting Convention (Conf. Publ.No.428) p. 230-5

Publisher: IEE, London, UK

Publication Date: 1996 **Country of Publication:** UK xvi+611 pp.

ISBN: 0 85296 663 6 **Material Identity Number:** XX96-02814

Conference Title: International Broadcasting Convention (Conf. Publ.No.428)

Conference Sponsor: IEEE; IEE; Int. Assoc. Broadcasting Manuf.; R. Telev. Soc.; Soc. Cable Telecommun. Eng.; Soc. Motion Picture & Telev. Eng

Conference Date: 12-16 Sept. 1996 **Conference Location:** Amsterdam, Netherlands

Language: English

Subfile: B C

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Abstract: ...As the term 'interactive services' is only recently introduced, it proposes a definition and description. This include all interactive applications on a digital integrated receiver decoder: **electronic program guide**, impulse-pay-per-view, home shopping, home banking, betting, information services etc. It describes the functionality and defects of the first generation of digital set...

11/3,K/2 (Item 1 from file: 583) [Links](#)

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06658739

Thomson Multimedia est bien engag  sur la voie de son redressement

FRANCE: THOMSON MULTIMEDIA'S RESULTS

Les Echos (LE) 17/18 Jul 1998 p.12

Language: FRENCH

...TV set arena. Although TMM is the leading TV set manufacturer in the US, it wants to develop a new range of products including multimedia **decoders** or **interactive TV programmes guides** inserted within the TV set.

11/3,K/3 (Item 1 from file: 483) [Links](#)

Newspaper Abs Daily

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04477692

On Broadcasting: Digital fly in the alphabet soup

Elstein, David

Guardian , Sec MEDIA, p 7, col 4

Mar 3, 1997

ISSN: 0261-3007 Newspaper Code: MG

Document Type: Commentary ; Newspaper

Language: English Record Type: ABSTRACT

Length: Long (18+ col inches)

Abstract: ...worked hard on causes espoused by la Toynbee: a common interface an agreed API (the applications programming interface which makes the box work), an open **electronic programme guide**, a specially designed **decoder**. Yet the consortium which the BBC is now supporting recommends the whole of DTT using BSkyB's decoder design, BSkyB's EPG design and BSkyB...

16/3,K/1 (Item 1 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Ei Compindex(R)

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06945189 E.I. No: EIP94091411045

Title: Double half-bandwidth OFDM system for digital video broadcasting

Author: Di Zenobio, D.

Corporate Source: Fondazione Ugo Bordoni, Roma, Italy

Conference Title: Proceedings of the 1994 IEEE International Conference on Communications

Conference Location: New Orleans, LA, USA **Conference Date:** 19940501-19940505

E.I. Conference No.: 20804

Source: Conference Record - International Conference on Communications v 1 1994. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA. p 358-362

Publication Year: 1994

CODEN: CICC DV **ISSN:** 0536-1486 **ISBN:** 0-7803-1826-9

Language: English

Abstract: ...Multiplexing (OFDM) technique and a coding scheme. This article presents a particular use of a Coded-OFDM with guard-interval(ICOFDM) to provide transmission with **one** enhanced definition **TV** or two standard definition TV signals in a 7MHz bandwidth. In the paper frequency arrangements of the TV channel and RF filters features are also...

Descriptors: *Frequency division multiplexing; Signal **encoding**; Television transmission; Television **broadcasting**; Communication **channels** (information theory); Computer simulation; Phase shift keying; High definition television; Television **receivers**; Performance

16/3,K/2 (Item 1 from file: 57) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Electronics & Communications Abstracts

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0000417040 IP Accession No: 200609-22-079213

HDTV adaptability to multiple media

Citta, R; Fockens, P; Krishnamurthy, G; Snopko, P
IEEE Transactions on Consumer Electronics , v 35 , n 3 , p 195-201 , Aug. 1989

Pages: 195-201

Publication Date: 1989

Publisher: Institute of Electrical and Electronics Engineers, Inc. , 445 Hoes Ln , Piscataway , NJ , 08854-1331

Country Of Publication: USA

Publisher Url: <http://iee.org>

Publisher Email: inspec@iee.org

Document Type: Journal Article

Record Type: Abstract

Language: English

ISSN: 0098-3063

File Segment: Electronics & Communications Abstracts

Abstract:

The spectrum-compatible high-definition television (SC-HDTV) system is concisely described in the context of terrestrial broadcasting. The system's application to the **other** three consumer TV delivery means, cable, satellite, and VCR, is discussed. Comparisons are made with **other** proposed ATV (advanced TV) systems. It is concluded that the SC-HDTV system has features that are attractive in all three cases. The minimized interference between SC-HDTV and...

Descriptors: Cables; Television; Satellites; Broadcasting; Media; Channels; Frequency modulation; Interference; High definition television; Television systems; **Receivers**; All terrain vehicles; Stations; Electronics; Operators; Format; Rendering; **Encryption**; Cables; Television; Satellites; **Broadcasting**; Media; **Channels**; **Frequency modulation**; Interference; High definition television; Television systems; **Receivers**; All terrain vehicles; Stations; Electronics; Operators; Format; Rendering; Encryption

20/3,K/1 (Item 1 from file: 583) [Links](#)

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09013246

unique digital receiver takes honours

HONG KONG: DS.TV200 RECEIVER HAS BEEN LAUNCHED

The HongKong Standard (XKR) 05 Nov 1998 p.4

Language: ENGLISH

China Aerospace International Research and Development Co. Ltd. has launched DS.TV200 receiver which is a digital satellite TV receiver equipped with the **first** onscreen Chinese character display in the world. DS.TV200 receiver combines French technology and applies the Digital Video Broadcasting (DVB) format. It can support **MPEG-2** and receive all free satellite TV programs. The DS.TV200 receiver also gives the **Electronic Programming Guide (EPG)** function which is not only wholly compliant to the DVB data exchange format but also provides a user-friendly operation system and program browsing tool.

28/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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06028202 **INSPEC Abstract Number:** B9510-6420-027

Title: Digital compression and the international TV marketplace

Author Walisko, W. V.

Author Affiliation: INTELSAT, Wahington, DC, USA

Conference Title: IBC 95. International Broadcasting Convention (Conf. Publ. No. 413) p. 372-6

Publisher: IEE , London, UK

Publication Date: 1995 **Country of Publication:** UK xviii+572 pp.

ISBN: 0 85296 644 X

Conference Title: International Broadcasting Conference IBC '95

Conference Sponsor: IEEE; IEE; Int. Assoc. Broadcasting Manuf.; Royal Telev. Soc.; Soc. Cable Telecommun. Eng.; Soc. Motion Picture & Telev. Eng

Conference Date: 14-18 Sept. 1995 **Conference Location:** Amsterdam, Netherlands

Language: English

Subfile: B

Copyright 1995, IEE

Abstract: ...believe the combination of these elements will allow many new market sectors to open in the international satellite

video area in the near future. Digital **compression** will allow **video channels** to be designed to have lower cost which will enable **new multimedia**, business **TV** and narrowcaster customers to transmit video by satellite.

28/3,K/2 (Item 2 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

INSPEC

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05592431 **INSPEC Abstract Number:** B9403-6420-012

Title: Digital television broadcasting

Author Breide, S.; Engels, V.; Johann, J.; Kuhn, M.

Journal: Fernseh- und Kino-Technik vol.47, no.9 p. 535-44

Publication Date: Sept. 1993 **Country of Publication:** West Germany

CODEN: FNKTAH **ISSN:** 0015-0142

Language: German

Subfile: B

Abstract: ...technologies and common frequency multiple transmitter broadcasting of television signals. Techniques for high video data compression are described and distribution of digitally encoded TV programmes (**Secondary Distribution**) are examined. To achieve high compression, variable length coding is employed which examines the extent of moving images, and uses forward error correction (FEC..

[File 696] **DIALOG Telecom. Newsletters** 1995-2007/Jul 27
(c) 2007 Dialog. All rights reserved.

[File 9] **Business & Industry(R)** Jul/1994-2007/Jul 23
(c) 2007 The Gale Group. All rights reserved.

[File 15] **ABI/Inform(R)** 1971-2007/Jul 27
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 484] **Periodical Abs Plustext** 1986-2007/Jul W4
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[File 813] **PR Newswire** 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc. All rights reserved.

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(c) 2007 PR Newswire Association Inc. All rights reserved.
**File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.*

[File 635] **Business Dateline(R)** 1985-2007/Jul 28
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 810] **Business Wire** 1986-1999/Feb 28
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(c) 2007 Business Wire. All rights reserved.
**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 369] **New Scientist** 1994-2007/Jul W2
(c) 2007 Reed Business Information Ltd. All rights reserved.

[File 370] **Science** 1996-1999/Jul W3
(c) 1999 AAAS. All rights reserved.
**File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 16] **Gale Group PROMT(R)** 1990-2007/Jul 27
(c) 2007 The Gale Group. All rights reserved.

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jul 17
(c) 2007 The Gale group. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jul 25
(c) 2007 The Gale Group. All rights reserved.
**File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 160] **Gale Group PROMT(R)** 1972-1989
(c) 1999 The Gale Group. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jul 24
(c) 2007 The Gale Group. All rights reserved.

[File 621] **Gale Group New Prod. Annou.(R)** 1985-2007/Jul 24
(c) 2007 The Gale Group. All rights reserved.

[File 624] **McGraw-Hill Publications** 1985-2007/Jul 26
(c) 2007 McGraw-Hill Co. Inc. All rights reserved.
**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 634] **San Jose Mercury** Jun 1985-2007/Jul 27
(c) 2007 San Jose Mercury News. All rights reserved.

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Jul 27
(c) 2007 The Gale Group. All rights reserved.

[File 647] **CMP Computer Fulltext** 1988-2007/Sep W2
(c) 2007 CMP Media, LLC. All rights reserved.

Set	Items	Description
S1	347550	S (COMMERCIAL OR VIDEO OR SCRAMBL??? OR MULTIMEDIA OR SIMULCAST??? OR BROADCAST???) (3N) (CHANNEL?? OR FREQUENCIES OR FREQUENCY OR STREAM?? OR KEY?? OR FORMAT?)
S2	78312	S (EPG OR PROGRAM()GUIDE?? OR PROGRAM? OR SOFTWARE OR APG OR IPG OR ADVANCED OR (ELECTRONIC OR INTERACTIVE)) (5N) (PROGRAM?() (GUIDE?? OR MENU?? OR LIST??? OR SCHEDULE?? OR GRID??))
S3	9067	S (ENCRYPT??? OR ENCOD??? OR COMPRESS??? OR EKT OR ENCRYPT?()KEY()TRANSPORT OR SALT OR SPEECH()APPLICATION()LANGUAGE()TAGS) (3N) (S1 OR S2)
S4	322	S (DECRYPT? OR DECOD??? OR DECOMPRESS??? OR MPEG?) (3N)S2
S5	228187	S (PRIMARY OR FIRST OR ONE OR MASTER OR INTITIAL OR OLD OR OUTDATED OR OLDER OR OLDEST) (3N) (RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S6	500554	S (SECOND? OR OTHER OR NEXT OR SLAVE OR NEW OR NEWER OR LATEST OR MODERN OR DIFFERENT) (3N) (SATELLITE()DISH RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S7	162722	S LEGACY(3N)SYSTEM??
S8	72	S AU=(GILLON, W? OR GILLON W? OR PERLMAN, S? OR PERLMAN S?)
S9	522466	S (STB OR SET()TOP()BOX OR SETTOP()BOX OR RECEIVER?? OR STT OR SET()TOP()TERMINAL?? OR (CATV OR SUBSCRIBER OR CABLE) (3N) (BOX OR CONVERTER))
S10	5	S S4(20N)S5
S11	7	S S4(20N)S6
S12	1	S S4(20N)S7
S13	6	S S11 NOT S10
S14	211	S S4 AND S9
S15	73	S S14 AND (S5:S7)
S16	67	S S15 NOT (S10:S13)
S17	0	S S16 AND S8
S18	8	S S16 AND S3
S19	177	S (S3 OR S4) AND (S5 AND S6)
S20	0	S S19 AND S8
S21	47	S S19(20N)S9
S22	37	S S21 NOT (S10:S13 OR S16)
S23	37	S S22 NOT S18

10/3,K/1 (Item 1 from file: 696) [Links](#)

DIALOG Telecom. Newsletters

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00690668

TIVO TO STAGE IPO AT \$13 PER SHARE

SATELLITE WEEK

September 13, 1999 Document Type: NEWSLETTER

Publisher: WARREN PUBLISHING INC.

Language: ENGLISH Word Count: 440 Record Type: FULLTEXT

(c) WARREN PUBLISHING INC. All Rts. Reserv.

Text:

...use service.

In addition to Quantum, NEC supplies PVR's application-specific IC, while Sony produces MPEG-2 encoder semiconductor device and Tribune Media Services, **program guide** data. Among new

services TiVo is planning is iBuy, which will allow viewers to get more information and possibly purchase product using remote control. Top...preferred shares in company, starts manufacturing PVRs this fall. Current model went on sale at Best Buy last week at \$499. Other stakeholders include NBC-TV (one million shares), America Online (\$5 million investment), hard driver maker Quantum, which has 2 warrants to purchase total of 867,803 shares. Largest shareholders are...

...viable retail price" for PVRs and other products that use service.

In addition to Quantum, NEC supplies PVR's application-specific IC, while Sony produces MPEG-2 encoder semiconductor device and Tribune Media Services, program guide data. Among new services TiVo is planning is iBuy, which will allow viewers to get more information and possibly purchase product using remote control. Top...

10/3,K/2 (Item 1 from file: 810) [Links](#)

Business Wire

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0471972 BW0019

STARSIGHT TELECAST : Consumers give StarSight on-screen TV program guide strong approval in Viacom Cable's Castro Valley system; initial feedback supports market penetration rate of 50 percent

March 21, 1995

Byline: Business Editors/Computer Writers

...program guide

feature also rated highly at 87 percent. Most customers surveyed were both recording more programs with StarSight and had stopped using paper TV program guides.

StarSight is available from cable operators via Zenith MM2000 set-top boxes, General Instrument/Jerrold 2900 set-top boxes; and from satellite retailers and distributors with Uniden America Corp.'s satellite Integrated Receiver Decoder (IRD). Consumer electronics products currently available to the consumer include StarSight-equipped Zenith and Mitsubishi TVs, the StarSight CB 1500 receiver marketed by Magnavox (Philips...

...and serves over 1.1 million customers in California, Tennessee, Washington, Oregon and Ohio.

StarSight Telecast, Inc. develops and markets StarSight, a patented on-screen interactive TV program guide with one button VCR

recording. StarSight is available throughout the United States by subscription, for less than \$5 per month, to TV viewers whether they receive television...

10/3,K/3 (Item 1 from file: 16) [Links](#)

Gale Group PROMT(R)

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04761704 Supplier Number: 47009478 (USE FORMAT 7 FOR FULLTEXT)

Sweden lays foundations for digital TV

Screen Digest, p N/A

Jan 1, 1997

Language: English Record Type: Fulltext

Document Type: Newsletter ; Trade
Word Count: 145
(USE FORMAT 7 FOR FULLTEXT)

Text:

All Swedish broadcasters aiming to launch digital television services must co-operate on a common **decoder** and **electronic programme guide** technology, according to a digital TV broadcasting bill presented December 1996 to Swedish parliament. Bill calls for implementation of digital TV in several stages, **first** of which will start autumn 1997, when at least two frequencies will be handed over to digital broadcasters in two or three areas.
Special co...

10/3,K/4 (Item 1 from file: 148) Links

Gale Group Trade & Industry DB

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07751450 **Supplier Number:** 16682131 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Consumers give StarSight on-screen TV program guide strong approval in Viacom Cable's Castro Valley system; initial feedback supports market penetration rate of 50 percent.

Business Wire, p03210019

March 21, 1995

Language: ENGLISH

Record Type: FULLTEXT

Word Count: 940 **Line Count:** 00079

...program guide feature also rated highly at 87 percent. Most customers surveyed were both

recording more programs with StarSight and had stopped using paper TV **program guides**.

StarSight is available from cable operators via Zenith MM2000 set-top boxes, General

Instrument/Jerrold 2900 set-top boxes; and from satellite retailers and distributors with Uniden

America Corp.'s satellite Integrated Receiver **Decoder** (IRD). Consumer electronics products

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StarSight CB 1500 receiver marketed by Magnavox (Philips...

...and serves over 1.1 million customers in California, Tennessee, Washington, Oregon and Ohio.

StarSight Telecast, Inc. develops and markets StarSight, a patented on-screen **interactive TV program guide** with one button VCR recording.

StarSight is available throughout the United States by subscription, for less than \$5 per month, to

TV viewers whether they receive television...

10/3,K/5 (Item 1 from file: 636) Links

Gale Group Newsletter DB(TM)

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03406013 **Supplier Number:** 47009478 (USE FORMAT 7 FOR FULLTEXT)

Sweden lays foundations for digital TV

Screen Digest, p N/A

Jan 1, 1997

Language: English Record Type: Fulltext
Document Type: Newsletter ; Trade
Word Count: 145
(USE FORMAT 7 FOR FULLTEXT)
Text:

All Swedish broadcasters aiming to launch digital television services must co-operate on a common decoder and **electronic programme guide** technology, according to a digital TV broadcasting bill presented December 1996 to Swedish parliament. Bill calls for implementation of digital TV in several stages, **first** of which will start autumn 1997, when at least two frequencies will be handed over to digital broadcasters in two or three areas. Special co...

12/3,K/1 (Item 1 from file: 696) [Links](#)
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00640842

'5C' RESPONSE EXPECTED ON THOMSON-ZENITH XCA PROPOSAL

AUDIO WEEK
November 23, 1998 Document Type: NEWSLETTER
Publisher: WARREN PUBLISHING INC.
Language: ENGLISH Word Count: 535 Record Type: FULLTEXT

(c) WARREN PUBLISHING INC. All Rts. Reserv.

Text:

...conditional access operations of DirecTV and its "constant cat-and-mouse game" with signal pirates. Other concern, he said, was whether XCA would work with **legacy systems**, such as **electronic program guides**, and other functions of cable set-top boxes.

Claim that DTCP can't prevent digital copying is "disingenuous" on part of Thomson and Zenith, source...proposal seemed specific to TV and that consensus among industries is that any comprehensive copyright protection must include PCs. He noted that while intelligence for **decryption** could be placed in TV set, computer monitors are passive devices that take intelligence from PC. Thomson spokesman conceded that XCA presentation didn't include...

...conditional access operations of DirecTV and its "constant cat-and-mouse game" with signal pirates. Other concern, he said, was whether XCA would work with **legacy systems**, such as **electronic program guides**, and other functions of cable set-top

13/3,K/1 (Item 1 from file: 696) [Links](#)
DIALOG Telecom. Newsletters
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00690536

TIVO IPO AT \$13 PER SHARE

CONSUMER ELECTRONICS
September 13, 1999 Document Type: NEWSLETTER

Publisher: WARREN PUBLISHING INC.

Language: ENGLISH Word Count: 437 Record Type: FULLTEXT

(c) WARREN PUBLISHING INC. All Rts. Reserv.

Text:

...use service.

In addition to Quantum, NEC supplies PVR's application-specific IC, while Sony produces MPEG-2 encoder semiconductor device and Tribune Media Services, **program guide** data.

Among new services TiVo is planning is iBuy, which will allow viewers to get more information and possibly purchase product using remote control.

Top...has 1.3

million preferred shares in company, starts manufacturing PVRs this fall. Current model went on sale at Best Buy last week at \$499. **Other** stakeholders include NBC-TV (1 million shares), America Online (\$5 million investment), hard driver maker Quantum, which has 2 warrants to purchase total of 867,803 shares. Largest shareholders...

...viable retail price" for PVRs and other products that use service.

In addition to Quantum, NEC supplies PVR's application-specific IC, while Sony produces **MPEG-2** encoder semiconductor device and Tribune Media Services, **program guide** data.

Among new services TiVo is planning is iBuy, which will allow viewers to get more information and possibly purchase product using remote control.

Top...

13/3,K/2 (Item 1 from file: 9) Links

Business & Industry(R)

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03057554 Supplier Number: 102840898 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Toshiba re-enters integrated high-definition market. (Video/Home Satellite).

TWICE, v 18, n 11, p 24

May 19, 2003

Document Type: Journal ISSN: 0892-7278 (United States)

Language: English Record Type: Fulltext

Word Count: 931 (USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...with split-cabinet designs and 8VSB and QAM demodulation systems for over-the-air and digital cable TV tuning, respectively. Also added is Gemstar's **new TV Guide OnScreen electronic program guide** for DTVs. Other features include dual DTVLink inputs, DVI-HDCP, a multi-card slot (for SD and SmartMedia flash media formats) for JPEG image viewing...

...3,199.99, July) screen sizes.

To enable the monitors to receive HD content, Toshiba said it would ship the DST-3100 ATSC/DirectTV HD **decoder** box in July at a \$699.99 suggested retail price. The DST-3100 replaces the tardy DST-3000. The new box includes DVI-HDCP digital outputs, HD component video output and an **advanced program guide**. Ramirez said the box would enable simultaneous output of HD and SD content for multiroom applications.

Meanwhile, Ramirez said Toshiba has reduced its offerings in...

13/3,K/3 (Item 1 from file: 16) [Links](#)
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10525358 **Supplier Number: 102840898 (USE FORMAT 7 FOR FULLTEXT)**

Toshiba re-enters integrated high-definition market. (Video/Home Satellite).

Tarr, Greg
TWICE, v 18, n 11, p 24(1)
May 19, 2003
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1066

...with split-cabinet designs and 8VSB and QAM demodulation systems for over-the-air and digital cable TV tuning, respectively. Also added is Gemstar's **new TV Guide OnScreen electronic program guide** for DTVs. Other features include dual DTVLink inputs, DVI-HDCP, a multi-card slot (for SD and SmartMedia flash media formats) for JPEG image viewing...
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Meanwhile, Ramirez said Toshiba has reduced its offerings in...

13/3,K/4 (Item 2 from file: 16) [Links](#)
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05011655 **Supplier Number: 47359775 (USE FORMAT 7 FOR FULLTEXT)**

Additions turn set-top boxes into DVDs

Rossi, John R.
Electronic Engineering Times, p 90
May 5, 1997
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1317

...set-top box in its interface to the user's TV. A 32-bit processor is the controller of choice due to the GUI-based **TV program guide** and other applications typically developed for the set-top.

The SGS-Thomson STi3520A is probably the most widely-used **decoder** for **MPEG 2** video and Musicam audio. (It holds 72 percent of the 1996 market for **MPEG-2 decoders**, according to Dataquest estimates.) The use of the 16 Mbits of memory in conjunction with the **MPEG-2 decoder** allows set-top boxes to incorporate 2-D graphics information (like overlays) and color with the **decoded** video. This has become the preferred way to integrate an on-screen **program guide** or channel-management system in the set-top box. The STi3520A MPEG-2 decoder was also the first

13/3,K/5 (Item 1 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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09490123 - **Supplier Number:** 19419803 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Additions turn set-top boxes into DVDs. (MPEG-2 compression used with digital broadcast receivers and DVD players) (Analog/Mixed-Signal Design: Part 2: Multimedia Enablers) (Technology Information)

Rossi, John R.

Electronic Engineering Times , n952 , p90(1)

May 5 , 1997

ISSN: 0192-1541

Language: English

Record Type: Fulltext; Abstract

Word Count: 1456 **Line Count:** 00117

...set-top box in its interface to the user's TV. A 32-bit processor is the controller of choice due to the GUI-based **TV program guide** and other applications typically developed for the set-top.

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13/3,K/6 (Item 1 from file: 647) [Links](#)

CMP Computer Fulltext

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01125232 **CMP Accession Number:** EET19970505S0157

Additions turn set-top boxes into DVDs

John R. Rossi, Market Development Manager CATV/DBS, SGS- Thomson Microelectronics

ELECTRONIC ENGINEERING TIMES , 1997 , n 952 , PG90

Publication Date: 970505

Journal Code: EET **Language:** English

Record Type: Fulltext

Section Heading: Analog/Mixed-Signal Design

Word Count: 1324

...set- top box in its interface to the user's TV. A 32-bit processor is the controller of choice due to the GUI-based **TV program guide** and other applications typically developed for the set-top.

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18/3,K/1 (Item 1 from file: 16) [Links](#)

Gale Group PROMT(R)

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09174415 **Supplier Number: 79956151 (USE FORMAT 7 FOR FULLTEXT)**

Metadata captures multimedia diversity.(Technical)

Rehm, Eric

Electronic Engineering Times, p 98

Nov 12, 2001

Language: English Record Type: Fulltext

Article Type: Technical

Document Type: Magazine/Journal; Trade

Word Count: 1591

...essence;

- Updated or changed information can be sent on demand-for example, based on a user request

or a user profile known only by the **receiver**;

- Partial updates (add, delete, replace) can be applied or the entire description can be reset.

MPEG-7 has employed other standards or harmonized with them...

...ensures efficient transport.

MPEG-7 will be interoperable with other leading standards such as SMPTE Metadata Dictionary, Dublin Core, EBU P/Meta and TV-Anytime.

TV-Anytime is the **first** metadata application to use MPEG-7 descriptors and description schemes as part of an open specification designed to allow consumer electronics manufacturers, content creators, telcos...

...this year, an Advanced Television Standards Committee (ATSC) request for proposal stated that "it

is highly desirable that any ATSC standard for enhanced metadata support **advanced EPG (electronic program guide)** features." It should also "be harmonized with other standards efforts, such as MPEG-7 . . . (and) . . . TV-Anytime," the ATSC said.

Finally, the MPEG-21 Multimedia...

...and MPEG-7 decoder to interoperate over a variety of transports including MPEG-4 systems and MPEG-2 transport streams (private data, DSM-CC sections, **MPEG-2** transport ancillary data such as ATSC PSIP).

This interoperation is supported in textual XML format or a compressed binary format. Using the 15938-1...

...byte equivalent to the original description, but will conform to the World Wide Web Consortium

(W3C) Canonical XML, making it compatible with all XML tools.

MPEG-7-based applications, such as TV-Anytime or an **advanced ATSC electronic program guide**, can transmit descriptions and, optionally, can incrementally update portions (or fragments) of an MPEG-7 description.

Four layers

There are four main layers of the...

18/3,K/2 (Item 2 from file: 16) Links

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04399587 **Supplier Number: 46454009 (USE FORMAT 7 FOR FULLTEXT)**

High definition still elusive

Electronic News (1991), p 35

June 10, 1996

Language: English **Record Type: Fulltext**

Document Type: Magazine/Journal ; Trade

Word Count: 2310

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Europe, by contrast, is making great strides with its Digital Video Broadcasting (DVB) standards for satellite, cable and terrestrial broadcasts. The success of DVB has enabled many European electronics and broadcasting concerns to sell the same digital TV implementation to **other** parts of the world. DVB makes no claims of being high-definition TV. It is, nonetheless, digital.

By no means did the United States intentionally...
...sector organization developing voluntary standards for the entire spectrum of advanced-television systems, including HDTV, adopted two additional standards earlier this year: a so-called "**program guide** for digital television" and "system information for digital television."

These specs, which are part of the overall DTV system standardized in the United States, are...

...cable, satellite, multichannel/

multipoint distribution service (MMDS) and satellite master-antenna television systems.

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Thus, the standard would need a new, non-real-time **compression** system and a **format** for

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Established...

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This is remarkable progress for Europe compared with its status several years ago. Before the United States embraced digital TV, Europe had vigorously pursued its...

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What price has Japan paid for not yet going digital? Surprisingly, not much. HDTV **receivers**, originally priced at more than \$10,000, are down to \$4,000 or \$5,000 for 28- to 32-inch screens with a 16:9 aspect ratio. By 1995, the industry had sold a cumulative 100,000 sets and was projecting an installed base of 300,000 **receivers** this year. The uptick was attributed to Hi-Vision coverage of the Summer Olympic Games in Atlanta.

This is not to say that digital TV...

18/3,K/3 (Item 1 from file: 47) [Links](#)

Gale Group Magazine DB(TM)

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07100060 Supplier Number: 133518250 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Use your PC like a TiVo.(HANDS-ON TESTING OF NEW PRODUCTS)(ATI All-In-Wonder 9600 Pro)(Pinnacle PCTV Deluxe)(SnapStream Beyond TV 3)(Product/Service Evaluation)

Karagiannis, Konstantinos

PC Magazine , 23 , 7 , 24(4)

April 20 , 2004

Document Type: Product/Service Evaluation

ISSN: 0888-8507

Language: English Record Type: Fulltext

Word Count: 2536 Line Count: 00185

Text:

...a trademarked noun as a verb: Xerox this, FedEx that, TiVo a show. Digital video recorders (DVRs)

have achieved this status thanks to the leading **set-top box** brand, but there's more than one way to get your TV fix. * At the heart of every TiVo, RePlayTV, or other living-room DVR...

...any premium channels or services you rely on your descrambler to deliver), or try a third-party IR blaster or serial cable to connect your **cable** or satellite tuner **box** with the PC-based tuner. The bottom line: If you have more than basic cable, finding the right way to control your set-top tuner...

...good video card anyway, you might want to consider the ATI All-In-Wonder 9600 Pro (AIW). It's a solid midrange graphics adapter and **TV tuner/DVR in one**.

ATI has been at the PC-based DVR game a long time, and gee-whiz features abound in the AIW software. You can capture the...

...VCR or DVD player with nothing on the front save a power button and activity lights. The 5504 will take input from cable TV, satellite **receivers**, or both, and it converts the signal to compressed MPEG-2 files and stores them on the integrated hard drive. It then decompresses and outputs...

...photos for free. Panasonic's DVD-RAM-based recorders have removable storage (and hard drives on some models) but use only VCR+ codes, not a **program guide**. If you watch mostly satellite, you'll get better quality with a combo **receiver/DVR** (it doesn't require an extra MPEG-2 decode/encode cycle), which ReplayTV doesn't make but TiVo does. Windows Media Center Edition PCs don't have the video quality (yet) of standalone DVRs, but the **programming guides** are free.

All in all, the ReplayTV 5500 series DVR is great for people who jump around a lot within programs. If you'll be...

18/3,K/4 (Item 1 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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14028137 **Supplier Number:** 79956151 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Metadata captures multimedia diversity.(Technical)

Rehm, Eric

Electronic Engineering Times, 98

Nov 12, 2001

Document Type: Technical

ISSN: 0192-1541

Language: English

Record Type: Fulltext

Word Count: 1591 **Line Count:** 00133

...essence;

- Updated or changed information can be sent on demand-for example, based on a user request

or a user profile known only by the **receiver**;

- Partial updates (add, delete, replace) can be applied or the entire description can be reset.

MPEG-7 has employed other standards or harmonized with them...

...ensures efficient transport.

MPEG-7 will be interoperable with other leading standards such as SMPTE Metadata Dictionary, Dublin Core, EBU P/Meta and TV-Anytime.

TV-Anytime is the **first** metadata application to use MPEG-7 descriptors and description schemes as part of an open specification designed to allow consumer electronics manufacturers, content creators, telcos...

...this year, an Advanced Television Standards Committee (ATSC) request for proposal stated that "it is highly desirable that any ATSC standard for enhanced metadata support **advanced EPG (electronic program guide)** features." It should also "be harmonized with other standards efforts, such as MPEG-7 . . . (and) . . . TV-Anytime," the ATSC said. Finally, the MPEG-21 Multimedia...

...and MPEG-7 decoder to interoperate over a variety of transports including MPEG-4 systems and MPEG-2 transport streams (private data, DSM-CC sections, **MPEG-2** transport ancillary data such as ATSC PSIP).

This interoperation is supported in textual XML format or a compressed binary format. Using the 15938-1...

...byte equivalent to the original description, but will conform to the World Wide Web Consortium

(W3C) Canonical XML, making it compatible with all XML tools.

MPEG-7-based applications, such as TV-Anytime or an **advanced ATSC electronic program guide**, can transmit descriptions and, optionally, can incrementally update portions (or fragments) of an MPEG-7 description.

Four layers

There are four main layers of the...

18/3,K/5 (Item 2 from file: 148) Links

Gale Group Trade & Industry DB

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08740500 **Supplier Number:** 18384956 (USE FORMAT 7 OR 9 FOR FULL TEXT)

High definition still elusive. (second of two parts) (gap between concept and product) (Technology Information)

Yoshida, Junko

Electronic Engineering Times, n905, p35(3)

June 10, 1996

ISSN: 0192-1541

Language: English

Record Type: Fulltext; Abstract

Word Count: 2512 **Line Count:** 00200

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Europe, by contrast, is making great strides with its Digital Video Broadcasting (DVB) standards for satellite, cable and terrestrial broadcasts. The success of DVB has enabled many European electronics and broadcasting concerns to sell the same digital TV implementation to **other** parts of the world. DVB makes no claims of being high-definition TV. It is, nonetheless, digital.

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This is not to say that digital TV...

18/3,K/6 (Item 1 from file: 275) Links

Gale Group Computer DB(TM)

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02555162 **Supplier Number: 79956151 (Use Format 7 Or 9 For FULL TEXT)**

Metadata captures multimedia diversity.(Technical)

Rehm, Eric

Electronic Engineering Times , 98

Nov 12 , 2001

Document Type: Technical

ISSN: 0192-1541

Language: English **Record Type:** Fulltext

Word Count: 1591 **Line Count:** 00133

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Finally, the MPEG-21

Multimedia...

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Four layers

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18/3,K/7 (Item 1 from file: 647) Links

CMP Computer Fulltext

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01245456 **CMP Accession Number:** EET20011112S0071

Metadata captures multimedia diversity

Eric Rehm, Chief Technology Officer, Singingfish Inc., Seattle

ELECTRONIC ENGINEERING TIMES, 2001, n 1192, PG98

Publication Date: 011112

Journal Code: EET **Language:** English

Record Type: Fulltext

Section Heading: SYSTEM DESIGN - FOCUS: MPEG STANDARDS

Word Count: 1453

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18/3,K/8 (Item 2 from file: 647) [Links](#)

CMP Computer Fulltext

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01093985 **CMP Accession Number:** EET19960610S0125

High definition still elusive - In this conclusion of a two-part look at the U.S. HDTV effort, EE Times examines the gap that persists between concept and product.

Junko Yoshida

ELECTRONIC ENGINEERING TIMES, 1996, n 905, PG35

Publication Date: 960610

Journal Code: EET **Language:** English

Record Type: Fulltext

Section Heading: News - Business

Word Count: 2283

Text:

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23/3,K/1 (Item 1 from file: 15) [Links](#)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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03053529 1010636131

The ATSC standard

ROBIN, MICHAEL

Broadcast Engineering v48n3 pp: 22-26

Mar 2006

ISSN: 0007-1994 Journal Code: BRG

Word Count: 1616

Abstract:

...isolated and remote reception sites. For this reason, more than 80% of North American viewers receive analog cable TV. Because cable operators have chosen a **different** type of digital

TV modulation, a separate set-top digital cable TV tuner is required, or a new generation of cable-compatible ATSC **receivers** will need to be made available.

Text:

...format and listening conditions chosen. For economic reasons and to simplify receiver design, TV receivers may not display different formats. Depending on its class, the **receiver** may be built to display all transmitted formats or in a native, **receiver**-specific display, in **one** of the three picture formats (1920 x 1080, 1280 x 720 or 720 x 480). In the end, the display device determines the picture detail...

...many high-rise buildings.

For this reason, more than 80 percent of North American viewers receive analog cable TV. Because cable operators have chosen a **different** type of digital TV modulation, a separate set-top digital cable TV tuner is required, or a new generation of cable-compatible ATSC **receivers** will need to be made available.

Michael Robin, a fellow of the SMPTE and former engineer with the Canadian Broadcasting's engineering headquarters, is an...

23/3,K/2 (Item 2 from file: 15) [Links](#)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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01607807 02-58796

The road to digital

McClure, Howard G; Weirather, Robert R; Ericksen, Dane E; Payne, John; et al

Broadcast Engineering v40n3 pp: 66-140

Mar 1998

ISSN: 0007-1994 Journal Code: BRG

Word Count: 21735

Text:

...the other hand, the large-market network affiliates and O&O stations will likely be the first to build DTV facilities. In these markets, DTV **receivers** will **first** become available and government mandate will require the early construction of transmission facilities. These larger stations are more likely to have the capital budgets and...

23/3,K/3 (Item 1 from file: 16) [Links](#)

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12939556 **Supplier Number: 141720822 (USE FORMAT 7 FOR FULLTEXT)**

TV Transformed.(internet television services)

PC Magazine , v 25 , n 2 , p 103(19)

Feb 7 , 2006

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; General Trade

Word Count: 12063

...SkipJam Corp., www.skipjam.com. GOOD/VERY GOOD

The folks at SkipJam want the iMedia Center to be the Swiss Army knife of digital media

receivers. It's **one** small **set-top box** that streams audio, video,

and photos from your PC to your stereo and TV. The iMedia Center also integrates radio and TV

tuners, acts as...

...you compress TV shows and archive them to a PC on your network. You can also stream the TV signal

to another SkipJam device sitting **next** to a **TV** in a **different** room, which might

make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie

stream around the house as well--a nifty trick. There's even a Find Me feature on the front...

23/3,K/4 (Item 2 from file: 16) [Links](#)

Gale Group PROMT(R)

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12853167 **Supplier Number: 140977508 (USE FORMAT 7 FOR FULLTEXT)**

Personal Tech.

Washingtonpost.com , p NA

Jan 17 , 2006

Language: English **Record Type:** Fulltext

Document Type: Newswire ; General Trade

Word Count: 9824

23/3,K/5 (Item 3 from file: 16) [Links](#)

Gale Group PROMT(R)

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12774900 **Supplier Number: 139703585 (USE FORMAT 7 FOR FULLTEXT)**

Personal Tech: Holiday Gift Guide.

Washingtonpost.com , p NA

Dec 12 , 2005

Language: English **Record Type:** Fulltext
Document Type: Newswire ; General Trade
Word Count: 7432

...Pegoraro: They've already started that--a friend who lives in southern Fairfax told me Friday that he's getting the new DirecTV MPEG-4 **receiver**. (MPEG-4 is a more efficient video encoding system; DirecTV is using this to provide local high-def channels. **Older** DirecTV **receivers** can't decode that signal, although they still get the rest of DirecTV's lineup...

23/3,K/6 (Item 4 from file: 16) [Links](#)
Gale Group PROMT(R)
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08090416 **Supplier Number:** 67459818 (USE FORMAT 7 FOR FULLTEXT)

Fox Picks Scientific-Atlanta's PowerVu Plus Content Distribution System for Domestic Cable Broadcasts.
PR Newswire , p 5528
Nov 27 , 2000
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 1144

...Scientific-Atlanta. The multi-million dollar contract calls for Scientific-Atlanta to install two systems in Los Angeles and Houston, both capable of transmitting multiple **channels** of **compressed** digital **video** programming.

The contract also includes an order for 500 PowerVu Plus Multiple Decryption **Receivers** (MDR) which can simultaneously receive and decrypt up to 16 PowerVu Plus channels. The MDRs will allow Fox to deliver its digital multiplex easily to...

...16 program channels

- * Better bandwidth utilization over the satellite means more channels and/or better video quality
- * Matching the satellite and cable "pipe sizes" enables **one receiver** to fill a 256 QAM channel without any grooming or remultiplexing at the cable headend
- * Four independent transport stream outputs in the MDR enable the...

23/3,K/7 (Item 5 from file: 16) [Links](#)
Gale Group PROMT(R)
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05785462 **Supplier Number:** 50274783 (USE FORMAT 7 FOR FULLTEXT)

Cable not ready to handle digital TV
Leopold, George; Yoshida, Junko
Electronic Engineering Times , n 1023 , p 1
August 31 , 1998
Language: English **Record Type:** Fulltext
Article Type: Article
Document Type: Magazine/Journal ; Trade
Word Count: 1467

...said Chris Adams, vice president of marketing for the Consumer Network Products Division of C-Cube Microsystems.

With copy protection and encryption issues unresolved, the **first-generation DTV receivers** scheduled to debut this Christmas appear to be designed on the assumption that viewers are more likely to receive over-the-air DTV broadcasts via...

23/3,K/8 (Item 6 from file: 16) [Links](#)

Gale Group PROMT(R)

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04745602 **Supplier Number: 46985133 (USE FORMAT 7 FOR FULLTEXT)**

DBC's Digital Wireless TV Strategy Makes Analog Wireless Cable Obsolete

PR Newswire, p 1219NYTH093

Dec 19, 1996

Language: English **Record Type:** Fulltext

Document Type: Newswire; Trade

Word Count: 1368

...1,000 to \$1,200," Nerlinger said. "This includes such additional upfront charges as \$360 for programming, \$200 for installation, about \$500 for a second **receiver**, plus additional costs for maintenance, insurance, reception of local **TV** channels and **other** cost," Nerlinger concludes. "Most people are not aware of the actual upfront costs until they actually price out the system, which is why we are..."

23/3,K/9 (Item 7 from file: 16) [Links](#)

Gale Group PROMT(R)

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03240400 **Supplier Number: 44453427 (USE FORMAT 7 FOR FULLTEXT)**

Zilog's New Controllers Target Consumer Market

Electronic News (1991), p 40

Feb 21, 1994

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1070

...with new products this year, including a new feature-rich family of controllers for the digital answering machine market and a new television controller for **interactive TV program guides**.

Having recently previewed the new products at the Consumer Electronics Show, Zilog's upcoming family of controllers will target digital answering machine and combination telephone...

...to 24MHz from the 20MHz speed of the company's previous generation digital answering machine controllers.

'The key is increasing the quality level as the **compression** rate is lowered,' said

Philip Levine, tactical marketing manager, Consumer Business Unit. Zilog is targeting the market for

digital answering machines, as well as combination...

...At the same time, Zilog is assaulting the TV controller market by partnering with a Fremont, Calif.-based company, StarSight, to offer a cost-effective **interactive TV program guide** that features one-button VCR record capability.

In January, Zilog introduced the Z89300 digital TV controller family and revealed an agreement with StarSight under which Zilog will provide the TV, cable converter and VCR chip technology for the StarSight **interactive TV programming guide** for TV viewers.

Customers with StarSight-equipped sets will be able to view up to seven days of TV program schedule information on-screen by...

23/3,K/10 (Item 1 from file: 47) [Links](#)

Gale Group Magazine DB(TM)

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07285520 **Supplier Number:** 143582219 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The ATSC standard.

Broadcast Engineering, 48, 3, NA

March 1, 2006

ISSN: 0007-1994

Language: English **Record Type:** Fulltext

Word Count: 1444 **Line Count:** 00121

...3/2 pull-down concept used in NTSC countries. This reduces the transmitted bit rate and eases the task of the MPEG-2 encoder. The **receiver** reconstructs the interlaced or progressive display.

The ATSC system employs multiple picture **formats**, digital audio and **video compression**. The **compressed** video and associated audio data streams are packetized into a packetized elementary stream (PES). One (i.e., one HDTV program) or several (i.e., multiple

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...many high-rise buildings.

For this reason, more than 80 percent of North American viewers receive analog cable TV.

Because cable operators have chosen a **different** type of digital TV modulation, a separate set-top digital cable TV tuner is required, or a new generation of cable-compatible ATSC

receivers will need to be made available.

Michael Robin, a fellow of the SMPTE and former engineer with the Canadian Broadcasting's engineering headquarters, is an...

23/3,K/11 (Item 2 from file: 47) [Links](#)

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07262476 **Supplier Number:** 141720822 (USE FORMAT 7 OR 9 FOR FULL TEXT)
TV Transformed.(internet television services)

PC Magazine , 25 , 2 , 103(19)

Feb 7 , 2006

ISSN: 0888-8507

Language: English **Record Type:** Fulltext

Word Count: 12063 **Line Count:** 00922

...SkipJam Corp., www.skipjam.com. GOOD/VERY GOOD

The folks at SkipJam want the iMedia Center to be the Swiss Army knife of digital media

receivers. It's **one** small **set-top box** that streams audio, video, and photos from your PC to your stereo and TV. The iMedia Center also integrates radio and TV tuners, acts as...

...you compress TV shows and archive them to a PC on your network. You can also stream the TV signal

to another SkipJam device sitting **next** to a **TV** in a **different** room, which might make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie

stream around the house as well--a nifty trick. There's even a Find Me' feature on the front...

23/3,K/12 (Item 3 from file: 47) **Links**

Gale Group Magazine DB(TM)

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07131251 **Supplier Number:** 135061230 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SkipJam's powerful media hub.(Entertainment Technology)(Product/Service Evaluation)

Howard, Bill

PC Magazine , 24 , 13 , 34(1)

August 9 , 2005

Document Type: Product/Service Evaluation

ISSN: 0888-8507

Language: English **Record Type:** Fulltext

Word Count: 782 **Line Count:** 00060

...them to a PC on your network, making the iMedia Center a DVR. You can also stream the TV signal

to another SkipJam device sitting **next** to a **TV**, which might make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie stream around the house

with the iMedia Center as well.

SkipJam recommends using wired Ethernet as much as possible...

23/3,K/13 (Item 4 from file: 47) **Links**

Gale Group Magazine DB(TM)

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07111634 **Supplier Number:** 134011059 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SkipJam iMedia Center.

PC Magazine Online , NA

July 13 , 2005

ISSN: 0888-8507

Language: English **Record Type:** Fulltext

Word Count: 769 Line Count: 00059

...them to a PC on your network, making the iMedia Center a DVR. You can also stream the TV signal to another SkipJam device sitting **next** to a **TV**, which might make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie stream around the house with the iMedia Center as well.

SkipJam recommends using wired Ethernet as much as possible...

23/3,K/14 (Item 5 from file: 47) [Links](#)

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07094483 **Supplier Number:** 133456732 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 PRODUCT SOURCE.

Broadcast Engineering , 6 , 47 , NA

June 1 , 2005

ISSN: 0007-1994

Language: English **Record Type:** Fulltext

Word Count: 17814 **Line Count:** 01526

...trivenidigital.com

Allows broadcasters to offer new services by delivering various types of digitized content

through their DTV signals; supports streaming media, Web pages, interactive **TV**, and any

other type of digitized data; features **receiver** targeting, encryption and support for multi-station networks; can schedule content for distribution simultaneously through many DTV

broadcast streams in a multi-station network.

HD...

23/3,K/15 (Item 6 from file: 47) [Links](#)

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07035362 **Supplier Number:** 131322672 (USE FORMAT 7 OR 9 FOR FULL TEXT)

PRODUCT highlights.

Broadcast Engineering , 47 , 4 , NA

April 1 , 2005

ISSN: 0007-1994

Language: English **Record Type:** Fulltext

Word Count: 21369 **Line Count:** 01836

...Digital SkyScraper

Allows broadcasters to offer new services by delivering various types of digitized content

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other type of digitized data; features **receiver** targeting, encryption, and support for multi-station networks; can schedule content for distribution simultaneously through many DTV

broadcast streams in a multi-station network. 714...

23/3,K/16 (Item 7 from file: 47) [Links](#)
Gale Group Magazine DB(TM)
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05771464 **Supplier Number:** 61592650 (USE FORMAT 7 OR 9 FOR FULL TEXT)
DTV Marketplace.

Broadcast Engineering , NA
March , 2000
ISSN: 0007-1994
Language: English **Record Type:** Fulltext
Word Count: 18837 **Line Count:** 01518

...remote control, five channel (function) ENG video lens control system; controls focus, zoom, iris, on/off and video return; fits all B4 mount lenses with **one** screw; **receiver** works off lenses power; transmitter uses common AA batteries. 310-394-5510; fax: 310-395-2941;
www.innovision-optics.com Booth: L11773 Circle (509) on...s up to 10Km over single- and multimode fiber optic cables; available in 1300nm and 1550nm wavelengths; DTV-120-FRX serial digital video fiber optic **receiver** and DA provide **one** fiber optic input and two reclocked coaxial outputs. 800-4TV-TEST; 516-671-7278; fax: 516-671-3362; www.multidyne.com Booth: L 9144 Circle...

23/3,K/17 (Item 1 from file: 148) [Links](#)
Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rights reserved.
0019345951 **Supplier Number:** 143582219 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The ATSC standard.

Broadcast Engineering , 48 , 3 , NA
March 1 , 2006
ISSN: 0007-1994
Language: English
Record Type: Fulltext
Word Count: 1444 **Line Count:** 00121

...3/2 pull-down concept used in NTSC countries. This reduces the transmitted bit rate and eases the task of the MPEG-2 encoder. The **receiver** reconstructs the interlaced or progressive display.

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23/3,K/18 (Item 2 from file: 148) [Links](#)

Gale Group Trade & Industry DB

(c)2007 The Gale Group. All rights reserved.

0018385923 **Supplier Number:** 133456732 (USE FORMAT 7 OR 9 FOR FULL TEXT)

2005 PRODUCT SOURCE.

Broadcast Engineering , 6 , 47 , NA

June 1 , 2005

ISSN: 0007-1994

Language: English

Record Type: Fulltext

Word Count: 17814 **Line Count:** 01526

...trivenidigital.com

Allows broadcasters to offer new services by delivering various types of digitized content through their DTV signals; supports streaming media, Web pages, interactive **TV**, and any

other type of digitized data; features **receiver** targeting, encryption and support for multi-station networks; can schedule content for distribution simultaneously through many DTV

broadcast streams in a multi-station network.

HD...

23/3,K/19 (Item 3 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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0018096508 **Supplier Number:** 131322672 (USE FORMAT 7 OR 9 FOR FULL TEXT)

PRODUCT highlights.

Broadcast Engineering , 47 , 4 , NA

April 1 , 2005

ISSN: 0007-1994

Language: English

Record Type: Fulltext

Word Count: 21369 **Line Count:** 01836

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Allows broadcasters to offer new services by delivering various types of digitized content through their DTV signals; supports streaming media, web pages, interactive **TV**, and any

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23/3,K/20 (Item 4 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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14548775 **Supplier Number:** 85481653 (USE FORMAT 7 OR 9 FOR FULL TEXT)

HDCP: what it is and how to use it; whether or not you believe in content protection, if you design digital-video products, you must deal with the technology. Here's what you need to know to start applying high-bandwidth digital-content protection. (design feature).(high-bandwidth digital-content protection)

Lyle, Jim

EDN , 47 , 9 , 73(6)

April 18 , 2002

ISSN: 0012-7515

Language: English

Record Type: Fulltext

Word Count: 3685 **Line Count:** 00299

...Authentication tests and verifies these functions and, if unsuccessful, blocks transmission.

Authentication must exclude devices that have been compromised or hacked. Revocation accomplishes this exclusion.

First, transmitters and **receivers** must demonstrate knowledge of a valid set of keys. The keys themselves are kept private and never revealed, but each side of the link calculates calculation also initializes the cipher engines with a secret value, (K.sub.S), which forms the **video-encryption key**.

The transmitter generates a pseudo-random number, (A.sub.N), which it sends to the **receiver** along with the transmitter's KSV (key-selection vector). The receiver then sends its KSV to the transmitter. The KSV values must have the right...

23/3,K/21 (Item 5 from file: 148) **Links**

Gale Group Trade & Industry DB

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11992584 **Supplier Number:** 61592650 (USE FORMAT 7 OR 9 FOR FULL TEXT)

DTV Marketplace.

Broadcast Engineering , NA

March , 2000

ISSN: 0007-1994

Language: English

Record Type: Fulltext

Word Count: 18837 **Line Count:** 01518

...remote control, five channel (function) ENG video lens control system; controls focus, zoom,

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www.innovision-optics.com Booth: L11773 Circle (509) on...s up to 10Km over single- and multimode

fiber optic cables; available in 1300nm and 1550nm wavelengths; DTV-120-FRX serial digital video

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23/3,K/22 (Item 6 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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10434099 **Supplier Number:** 21082681 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Cable not ready to handle digital TV.(problems in connecting cable set-top boxes to digital TV receivers,)(Technology Information)

Leopold, George; Yoshida, Junko

Electronic Engineering Times , n1023 , p1(1)

August 31 , 1998

ISSN: 0192-1541

Language: English

Record Type: Fulltext

Word Count: 1624 **Line Count:** 00132

...said Chris Adams, vice president of marketing for the Consumer Network Products Division of

C-Cube Microsystems.

With copy protection and encryption issues unresolved, the **first-generation DTV receivers** scheduled to debut this Christmas appear to be designed on the assumption that

viewers are more likely to receive over-the-air DTV broadcasts via...

23/3,K/23 (Item 7 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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07214855 **Supplier Number:** 15119474 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Combining apples and oranges. (part 1) (telecommunications and CATV companies merge to form full service hybrid networks)

Pinkham, Rick

Telephony , v226 , n4 , p32(4)

Jan 24 , 1994

ISSN: 0040-2656

Language: ENGLISH

Record Type: FULLTEXT; ABSTRACT

Word Count: 2376 **Line Count:** 00194

...destination.

1. Signals are collected (off-air antenna, satellite or microwave antenna).

2. Signals are demodulated, decrypted and tuned (off-air signal processor or satellite

receiver with built-in video decryption).

3. Local video is inserted (local commercials, promotional advertising).

4. Signals are **encrypted** (**channels** are **scrambled** so they cannot be viewed by subscribers who have not paid an additional fee).

5. Signals are modulated (modulator).

6. Signals are combined (combining network...

23/3,K/24 (Item 1 from file: 275) [Links](#)

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02947422 **Supplier Number:** 141720822 (Use Format 7 Or 9 For FULL TEXT)

TV Transformed.(internet television services)

PC Magazine , 25 , 2 , 103(19)

Feb 7 , 2006

ISSN: 0888-8507

Language: English Record Type: Fulltext

Word Count: 12063 Line Count: 00922

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23/3,K/25 (Item 2 from file: 275) [Links](#)

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02895409 Supplier Number: 135061230 (Use Format 7 Or 9 For FULL TEXT)

SkipJam's powerful media hub.(Entertainment Technology)(Product/Service Evaluation)

Howard, Bill

PC Magazine , 24 , 13 , 34(1)

August 9 , 2005

Document Type: Product/Service Evaluation

ISSN: 0888-8507

Language: English Record Type: Fulltext

Word Count: 782 Line Count: 00060

...them to a PC on your network, making the iMedia Center a DVR. You can also stream the TV signal to another SkipJam device sitting **next** to a **TV**, which might make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie stream around the house with the iMedia Center as well.

SkipJam recommends using wired Ethernet as much as possible...

23/3,K/26 (Item 3 from file: 275) [Links](#)

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02890223 Supplier Number: 134011059 (Use Format 7 Or 9 For FULL TEXT)

SkipJam iMedia Center.

PC Magazine Online , NA

July 13 , 2005

ISSN: 0888-8507

Language: English Record Type: Fulltext

Word Count: 769 Line Count: 00059

...them to a PC on your network, making the iMedia Center a DVR. You can also stream the TV signal to another SkipJam device sitting **next** to a **TV**, which might make sense if the remote TV lacked, say, a satellite **receiver**. You can shuttle a DVD movie stream around the house

with the iMedia Center as well.

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23/3,K/27 (Item 4 from file: 275) [Links](#)

Gale Group Computer DB(TM)

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02601571 Supplier Number: 85481653 (Use Format 7 Or 9 For FULL TEXT)

HDCP: what it is and how to use it; whether or not you believe in content protection, if you design digital-video products, you must deal with the technology. Here's what you need to know to start applying high-bandwidth digital-content protection. (design feature).(high-bandwidth digital-content protection)

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April 18 , 2002

ISSN: 0012-7515

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receiver along with the transmitter's KSV (key-selection vector). The receiver then sends its

KSV to the transmitter. The KSV values must have the right...

23/3,K/28 (Item 1 from file: 621) [Links](#)

Gale Group New Prod.Annou.(R)

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02741594 Supplier Number: 67459818 (USE FORMAT 7 FOR FULLTEXT)

Fox Picks Scientific-Atlanta's PowerVu Plus Content Distribution System for Domestic Cable Broadcasts.

PR Newswire , p 5528

Nov 27 , 2000

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 1144

...Scientific-Atlanta. The multi-million dollar contract calls for Scientific-Atlanta to install

two systems in Los Angeles and Houston, both capable of transmitting multiple **channels** of

compressed digital **video** programming.

The contract also includes an order for 500 PowerVu Plus Multiple Decryption **Receivers**

(MDR) which can simultaneously receive and decrypt up to 16 PowerVu Plus channels.

The MDRs will

allow Fox to deliver its digital multiplex easily to...

...16 program channels

- * Better bandwidth utilization over the satellite means more channels and/or better video quality
- * Matching the satellite and cable "pipe sizes" enables **one receiver** to fill a 256 QAM channel without any grooming or remultiplexing at the cable headend
- * Four independent transport stream outputs in the MDR enable the...

23/3,K/29 (Item 2 from file: 621) [Links](#)

Gale Group New Prod. Annou.(R)

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01467850 **Supplier Number: 46985133 (USE FORMAT 7 FOR FULLTEXT)**

DBC's Digital Wireless TV Strategy Makes Analog Wireless Cable Obsolete

PR Newswire , p 1219NYTH093

Dec 19 , 1996

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 1368

...1,000 to \$1,200," Nerlinger said. "This includes such additional upfront charges as \$360 for programming, \$200 for installation, about \$500 for a second **receiver**, plus additional costs for maintenance, insurance, reception of local **TV** channels and **other** cost," Nerlinger concludes. "Most people are not aware of the actual upfront costs until they actually price out the system, which is why we are..."

23/3,K/30 (Item 1 from file: 624) [Links](#)

McGraw-Hill Publications

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0532022

DirectTV TO LAUNCH HIGH-POWER SATELLITE

MICHAEL A. DORNHEIM

Aviation Week & Space Technology, Vol. 139, No. 24, Pg 48

December 13

JOURNAL CODE: AW

SECTION HEADING: Space Technology ISSN: 0005-2175

WORD COUNT: 939

TEXT:

... receivers, creating a potential conflict with DirectTV and USSB. DirectTV handles this by letting Thomson have exclusive DSS rights for the first 18 months--or **one million receivers** to recoup its investment--and then letting Sony be a DSS competitive second source, paying royalties to Thomson.

The constellation will be two geosynchronous satellites...

23/3,K/31 (Item 1 from file: 636) [Links](#)

Gale Group Newsletter DB(TM)

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06233802 **Supplier Number:** 143582219 (USE FORMAT 7 FOR FULLTEXT)

The ATSC standard.

Broadcast Engineering , v 48 , n 3 , p NA

March 1 , 2006

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Trade

Word Count: 1444

...3/2 pull-down concept used in NTSC countries. This reduces the transmitted bit rate and eases the task of the MPEG-2 encoder. The **receiver** reconstructs the interlaced or progressive display.

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engineering headquarters, is an...

23/3,K/32 (Item 2 from file: 636) [Links](#)

Gale Group Newsletter DB(TM)

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06048361 **Supplier Number:** 133456732 (USE FORMAT 7 FOR FULLTEXT)

2005 PRODUCT SOURCE.

Broadcast Engineering , v 6 , n 47 , p NA

June 1 , 2005

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Trade

Word Count: 17814

...trivenidigital.com

Allows broadcasters to offer new services by delivering various types of digitized content through their DTV signals; supports streaming media, Web pages, interactive **TV**, and any **other** type of digitized data; features **receiver** targeting, encryption and support for multi-station networks; can schedule content for distribution simultaneously through many DTV broadcast streams in a multi-station network.
HD...

23/3,K/33 (Item 3 from file: 636) [Links](#)

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06001792 **Supplier Number:** 131322672 (USE FORMAT 7 FOR FULLTEXT)

PRODUCT highlights.

Broadcast Engineering, v 47, n 4, p NA

April 1, 2005

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 21369

...Digital SkyScraper

Allows broadcasters to offer new services by delivering various types of digitized content through their DTV signals; supports streaming media, web pages, interactive **TV**, and any **other** type of digitized data; features **receiver** targeting, encryption, and support for multi-station networks; can schedule content for distribution simultaneously through many DTV broadcast streams in a multi-station network. 714...

23/3,K/34 (Item 4 from file: 636) [Links](#)

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04635294 **Supplier Number:** 61592650 (USE FORMAT 7 FOR FULLTEXT)

DTV Marketplace.

Broadcast Engineering, p NA

March, 2000

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 16883

...remote control, five channel (function) ENG video lens control system; controls focus, zoom, iris, on/off and video return; fits all B4 mount lenses with **one** screw; **receiver** works off lenses power; transmitter uses common AA batteries. 310-394-5510; fax: 310-395-2941;
www.innovision-optics.com Booth: L11773 Circle (509) on...s up to 10Km over single- and multimode fiber optic cables; available in 1300nm and 1550nm wavelengths; DTV-120-FRX serial digital video fiber optic **receiver** and DA provide **one** fiber optic input and two reclocked coaxial outputs. 800-4TV-TEST; 516-671-7278; fax: 516-671-3362; www.multidyne.com Booth: L

9144 Circle...

23/3,K/35 (Item 5 from file: 636) [Links](#)
Gale Group Newsletter DB(TM)
(c) 2007 The Gale Group. All rights reserved.
01312843 **Supplier Number:** 41513860 (USE FORMAT 7 FOR FULLTEXT)

VIDEO COMPRESSION TECHNIQUES SAID TO BE NEARING PRACTICALITY

Satellite Week , v 12 , n 35 , p N/A
August 27 , 1990
Language: English **Record Type:** Fulltext
Document Type: Newsletter ; Trade
Word Count: 1171

...receiver to repeat it as long as it's in picture. (2) Interframe coding means that instead of describing each dot on picture, it describes **one** dot, then tells **receiver** to repeat it over large area. (3) **Receiver** intelligence predicts where motion is going, so data need be transmitted only on difference between prediction and reality.
Each of systems has its own special...

23/3,K/36 (Item 6 from file: 636) [Links](#)
Gale Group Newsletter DB(TM)
(c) 2007 The Gale Group. All rights reserved.
01311073 **Supplier Number:** 41507222 (USE FORMAT 7 FOR FULLTEXT)

VIDEO COMPRESSION TECHNIQUES SAID TO BE NEARING PRACTICALITY

Communications Daily , v 10 , n 163 , p N/A
August 22 , 1990
Language: English **Record Type:** Fulltext
Document Type: Newsletter ; Trade
Word Count: 1175

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Each of systems has its own special...

23/3,K/37 (Item 1 from file: 647) [Links](#)
CMP Computer Fulltext
(c) 2007 CMP Media, LLC. All rights reserved.
01170822 **CMP Accession Number:** EET19980831S0010
Cable not ready to handle digital TV

Junko Yoshida and George Leopold
ELECTRONIC ENGINEERING TIMES , 1998 , n 1023 , PG1
Publication Date: 980831
Journal Code: EET **Language:** English
Record Type: Fulltext
Section Heading: News
Word Count: 1476

...said Chris Adams, vice president of marketing for the Consumer Network Products Division of C-Cube Microsystems.

With copy protection and encryption issues unresolved, the **first-** generation DTV **receivers** scheduled to debut this Christmas appear to be designed on the assumption that viewers are more likely to receive over-the-air DTV broadcasts via...

[File 344] **Chinese Patents Abs** Jan 1985-2006/Jan
(c) 2006 European Patent Office. All rights reserved.

[File 347] **JAPIO** Dec 1976-2007/Dec(Updated 070702)
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[File 350] **Derwent WPIX** 1963-2007/UD=200748
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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit
<http://www.dialog.com/dwpi/>.*

[File 371] **French Patents** 1961-2002/BOPI 200209
(c) 2002 INPI. All rts. reserv. All rights reserved.

**File 371: This file is not currently updating. The last update is 200209.*

Set	Items	Description
S1	48907	S (COMMERCIAL OR VIDEO OR SCRAMBL??? OR MULTIMEDIA OR SIMULCAST??? OR BROADCAST???) (3N) (CHANNEL?? OR FREQUENCIES OR FREQUENCY OR STREAM?? OR KEY?? OR FORMAT??)
S2	7484	S (EPG OR PROGRAM()GUIDE?? OR PROGRAM? OR SOFTWARE OR APG OR IPG OR ADVANCED OR (ELECTRONIC OR INTERACTIVE)) (5N) (PROGRAM?() (GUIDE?? OR MENU?? OR LIST?? OR SCHEDULE?? OR GRID??))
S3	3890	S (ENCRYPT??? OR ENCOD??? OR COMPRESS??? OR EKT OR ENCRYPT?() KEY() TRANSPORT OR SALT OR SPEECH() APPLICATION() LANGUAGE() TAGS) (3N) (S1 OR S2)
S4	145	S (DECRYPT? OR DECOD??? OR DECOMPRESS??? OR MPEG?) (3N) S2
S5	106721	S (PRIMARY OR FIRST OR ONE OR MASTER OR INTITIAL OR OLD OR OUTDATED OR OLDER OR OLDEST) (3N) (RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S6	55628	S (SECOND? OR OTHER OR NEXT OR SLAVE OR NEW OR NEWER OR LATEST OR MODERN OR DIFFERENT) (3N) (SATELLITE() DISH RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S7	833	S LEGACY (3N) SYSTEM??
S8	125	S AU=(GILLON, W? OR GILLON W? OR PERLMAN, S? OR PERLMAN S?)
S9	458113	S (STB OR SET() TOP() BOX OR SETTOP() BOX OR RECEIVER?? OR STT OR SET() TOP() TERMINAL?? OR (CATV OR SUBSCRIBER OR CABLE) (3N) (BOX OR CONVERTER))
S10	4	S S4 (20N) S5
S11	1	S S4 (20N) S6
S12	1	S S11 NOT S10
S13	0	S S4 (20N) S7
S14	0	S S4 AND S7
S15	0	S S4 AND S8
S16	4	S S3 (30N) (S5 AND S6)
S17	4	S S16 NOT (S10:S12)
S18	6	S S3 AND S8
S19	6	S S18 NOT (S10:S12 OR S17)
S20	5	S S19 NOT AD=20010815:20070730/PR
S21	26	S S4 (3N) S9
S22	3	S S21 (20N) (S5:S7)
S23	0	S S22 NOT (S10:S12 OR S17 OR S20)
S24	0	S S21 AND S8

10/3,K/1 (Item 1 from file: 350) [Links](#)

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0012638157 *Drawing available*

WPI Acc no: 2002-487218/200252

Method for searching satellite broadcast program guide information database

Patent Assignee: KOREA TELECOM (KOTE-N)

Inventor: BAE S R; LEE H; PARK Y H; SEO J H

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
KR 2002006304	A	20020119	KR 200039889	A	20000712	200252	B

Priority Applications (no., kind, date): KR 200039889 A 20000712

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
KR 2002006304	A	KO	1	10	

Alerting Abstract ...signal is inputted, the signal is demodulated based on a QPSK through a QPSK demodulator(S1). The signal is separated into a TV signal, a **program guide** information signal, and an ad signal(S2). The receiving of the **program guide** information database is checked at a period of one minute(S3). The TV signal with respect to the selected channel is converted into red/green/blue(RGB) signals by a MPEG-II decoder(S4). In the case that a user requests a **program** search, the **program guide** information database is driven, and a **program list** search is provided(S5). When there is not an additional search request, the mode is returned to a TV watching mode(S6). When the user...

10/3,K/2 (Item 2 from file: 350) [Links](#)

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0010990340 *Drawing available*

WPI Acc no: 2001-615179/200171

XRPX Acc No: N2001-458797

Electronic program guide information acquiring in digital TV receiver, involves tuning PIP tuner to one of channels other than selected one to decode signals showing electronic program guide data from one of channels

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: GUPTA B; SAKAI M; SHAH B; TSINBERG M

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6212680	B1	20010403	US 199834265	A	19980304	200171	B

Priority Applications (no., kind, date): US 199834265 A 19980304

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6212680	B1	EN	11	6	

Original Publication Data by Authority**Claims:** A method of acquiring **electronic program guide information** for a plurality of channels using a digital television receiver having a first tuner and a second tuner comprising the steps of: a) receiving a command... .. automatically tuning the second tuner to at least one of said plurality of channels other than said first channel; e) receiving and decoding signals representing **electronic program guide** information from the at least one of said plurality of channels; and f) repeating steps b) through e).

10/3,K/3 (Item 3 from file: 350) [Links](#)

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0008511483 *Drawing available*

WPI Acc no: 1998-042540/199804

XRPX Acc No: N1998-034022

Interactive programme guide provision system for satellite and cable television - combines radio frequency (RF) signal for video recorder tuner and output on recorder baseband video output

Patent Assignee: E GUIDE INC (EGUI-N); INDEX SYSTEMS INC (INDE-N)
 Inventor: KWOH D S; YUEN H C

Patent Family (7 patents, 74 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997047136	A1	19971211	WO 1997US9912	A	19970606	199804	B
AU 199733815	A	19980105	AU 199733815	A	19970606	199821	E
EP 903039	A1	19990324	EP 1997929853	A	19970606	199916	E
			WO 1997US9912	A	19970606		
CN 1227694	A	19990901	CN 1997197065	A	19970606	199953	E
JP 2000511734	W	20000905	WO 1997US9912	A	19970606	200047	E
			JP 1998500900	A	19970606		
US 6526576	B1	20030225	US 199619012	P	19960606	200323	E
			WO 1997US9912	A	19970606		
			US 1999194963	A	19990715		
US 20030074664	A1	20030417	US 199619012	P	19960606	200329	E
			WO 1997US9912	A	19970606		
			US 1999194963	A	19990715		
			US 2002298805	A	20021118		

Priority Applications (no., kind, date): US 2002298805 A 20021118; US 1999194963 A 19990715; WO 1997US9912 A 19970606; US 199619012 P 19960606

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1997047136	A1	EN	18	3		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU					
Regional Designated States,Original	AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199733815	A	EN			Based on OPI patent	WO 1997047136
EP 903039	A1	EN			PCT Application	WO 1997US9912
					Based on OPI patent	WO 1997047136
Regional Designated States,Original	BE DE ES FR GB IT					
JP 2000511734	W	JA	26		PCT Application	WO 1997US9912
					Based on OPI patent	WO 1997047136
US 6526576	B1	EN			Related to Provisional	US 199619012
					PCT Application	WO 1997US9912
					Based on OPI patent	WO 1997047136
US 20030074664	A1	EN			Related to Provisional	US 199619012
					Continuation of application	WO 1997US9912
					Continuation of application	US 1999194963
					Continuation of patent	US 6526576

Original Publication Data by Authority**Claims:1.** A system for providing an **electronic** program guide for both over the air channels and direct broadcast satellite channels comprising:a direct broadcast satellite receiver comprising:a digital signal decoder for... .. for a desired television channel from between the signal for at least one over the air television channel and the signal for a desired direct **broadcast satellite channel**;means for creating a video signal containing a representation of **program guide** for both over the air television channels and direct broadcast satellite channels including means for directing a movable selector to different ones of the over

10/3,K/4 (Item 4 from file: 350) [Links](#)

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0007808172 *Drawing available*
WPI Acc no: 1996-436095/199644

Program guide signal receiver for television - receives broadcast signal which includes program guide signal containing information including video data about several programs

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: DO Y; DO Y S

Patent Family (8 patents, 6 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 735750	A2	19961002	EP 1996302271	A	19960329	199644	B
JP 8289269	A	19961101	JP 1995342444	A	19951228	199703	E
US 5966187	A	19991012	US 1996621464	A	19960325	199949	E
KR 164827	B1	19990320	KR 19957525	A	19950331	200042	E
JP 3080358	B2	20000828	JP 1995342444	A	19951228	200044	E
EP 735750	B1	20060215	EP 1996302271	A	19960329	200614	E
DE 69635820	E	20060420	DE 69635820	A	19960329	200628	E
			EP 1996302271	A	19960329		
DE 69635820	T2	20060810	DE 69635820	A	19960329	200654	E
			EP 1996302271	A	19960329		

Priority Applications (no., kind, date): EP 1996302271 A 19960329; KR 19957525 A 19950331

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 735750	A2	EN	11	4		
Regional Designated States,Original	DE FR GB					
JP 8289269	A	JA	7			
JP 3080358	B2	JA	8		Previously issued patent	JP 08289269
EP 735750	B1	EN				
Regional Designated States,Original	DE FR GB					
DE 69635820	E	DE			Application	EP 1996302271
					Based on OPI patent	EP 735750
DE 69635820	T2	DE			Application	EP 1996302271
					Based on OPI patent	EP 735750

Original Publication Data by Authority...**Claims:**A **program** guide signal receiver employed in a digital broadcasting satellite (DBS) signal receiver for receiving a digital broadcast satellite signal which includes a program guide signal... .. program guide signal selected in response to said first signal and to output a decoded program guide signal;a storing unit to separate and store **the information** contained in the **program guide** signal decoded by said decoder;a compressing unit to compress the video **data corresponding** to the **program** selected based on said second signal;a mixer to mix said decoded program guide signal as a main screen signal with said compressed video data...

12/3,K/1 (Item 1 from file: 350) [Links](#)

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0010411366 *Drawing available*
WPI Acc no: 2001-009308/200102

XRPX Acc No: N2001-007002

Apparatus for conditionally processing, storing and displaying digital channel content in a television reception system using an electronic program guide

Patent Assignee: HUGHES ELECTRONICS CORP (HUGA)

Inventor: ARSENAULT R G; BROWN J A; FINSETH C A; LEMINH T T

Patent Family (1 patents, 25 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1041822	A2	20001004	EP 2000106040	A	20000329	200102	B

Priority Applications (no., kind, date): US 1999126576 P 19990329; US 1999126686 P 19990329

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 1041822	A2	EN	23	10	
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI				

...are not of current interest and to route packets of interest through a decryption circuit (64), while control circuits (66,68) provide access to the **decrypted** packets. **Program guide** data are stored in a memory (70) and the microprocessor prepares it for display as a **program guide** or **other** content on a **TV**.

17/3,K/1 (Item 1 from file: 350) [Links](#)

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0013341326 *Drawing available*

WPI Acc no: 2003-428945/200340

XRPX Acc No: N2003-342408

Video signal recording and reproduction method involves allowing recording of video signal received on specific channel when specific period elapses

Patent Assignee: VICTOR CO OF JAPAN (VICO)

Inventor: KATO D

Patent Family (5 patents, 33 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030016944	A1	20030123	US 2002193877	A	20020712	200340	B
EP 1280345	A2	20030129	EP 2002255029	A	20020717	200340	E
JP 2003101923	A	20030404	JP 2002145776	A	20020521	200340	E
CN 1399267	A	20030226	CN 2002140939	A	20020710	200342	E
CN 1249998	C	20060405	CN 2002140939	A	20020710	200661	E

Priority Applications (no., kind, date): JP 2001219421 A 20010719; JP 2002145776 A 20020521

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030016944	A1	EN	25	11	
EP 1280345	A2	EN			
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR				
JP 2003101923	A	JA	21		

Original Publication Data by Authority...**Original Abstracts:** Video signals received on TV **channels** are recorded and **reproduced** with time-division **compression** and decompression to and from a storage medium to allow the video signals to be reproduced while the signals are being recorded. A channel-switching signal is generated when a **first TV** channel is switched to a second TV channel. Recording of a video signal received on the second TV channel is inhibited for a specific period...

...**Claims:** video signals received on TV channels with time-division compression and decompression of the video signals to and from a storage medium to allow the **video signals** to be reproduced **while** the signals are being recorded, the method comprising the steps of:generating a channel-switching signal when a **first TV** channel is switched to a **second TV** channel;inhibiting recording of a video signal received on the second TV channel for a specific period until a normal video signal received on the...

17/3,K/2 (Item 2 from file: 350) [Links](#)
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0012285549 *Drawing available*
WPI Acc no: 2002-226476/200228
XRPX Acc No: N2002-173825

Transceiver device for receiving content contained in a secure digital broadcast signal using encryption units to encrypt and decrypt the broadcast signal at sending and receive points

Patent Assignee: SONY ELECTRONICS INC (SONY); SONY CORP (SONY); SONY ELECTRONICS (SONY)
Inventor: KAGAMI A; MARUO J

Patent Family (4 patents, 93 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001073555	A1	20011004	WO 2001US9162	A	20010321	200228	B
AU 200150928	A	20011008	AU 200150928	A	20010321	200228	E
US 7058179	B1	20060606	US 2000538517	A	20000329	200638	E
US 20060133610	A1	20060622	US 2000538517	A	20000329	200642	E
			US 2006354646	A	20060214		

Priority Applications (no., kind, date): US 2006354646 A 20060214; US 2000538517 A 20000329

Patent Details

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2001073555	A1	EN	49	9		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200150928	A	EN			Based on OPI patent	WO 2001073555
US 20060133610	A1	EN			Continuation of application	US 2000538517

Original Publication Data by Authority... **Original Abstracts:** component for generating a data stream from a received digital broadcast signal coupled to a first encryption/decryption unit configured to encrypt the data stream generated from the digital broadcast signal. **Transceiver** system includes a second component for generating a video signal to view the content contained in digital broadcast signal, coupled to a second encryption/decryption unit for decrypting the encrypted data stream received... .. A transceiver system for receiving content contained in a secure digital broadcast signal. The **transceiver** system includes a first component for generating a data stream from a received digital broadcast signal. A first **encryption** unit is coupled to the first component. The first encryption unit is configured to encrypt the data stream generated from the digital broadcast signal, resulting in **encrypted data stream**. **Transceiver** system includes a second component for generating a video signal for a **monitor** to view that content contained in digital broadcast signal. A second encryption unit is coupled to the second component for decrypting the encrypted data stream... .. to the first component. The first encryption unit is configured to encrypt the data stream generated from the digital broadcast signal, resulting in encrypted data stream. **Transceiver** system includes a second component (350) for generating a video signal for a **monitor** to view that content contained in digital broadcast signal. A second encryption unit (312) is coupled to the second component for **decrypting the encrypted data stream** received from the first component. A third component (360) is for arbitration to coordinate the transmission of the encrypted data stream from the first encryption...

17/3,K/3 (Item 3 from file: 350) [Links](#)
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0009766000 *Drawing available*
WPI Acc no: 2000-052994/200004
XRPX Acc No: N2000-041316

Extension interface structure for computer networks

Patent Assignee: INT LABS INC (ITIT-N)
 Inventor: BARRETT D; ELY C; HELLER A; THORNTON B

Patent Family (3 patents, 84 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999057629	A1	19991111	WO 1999US9717	A	19990504	200004	B
AU 199937839	A	19991123	AU 199937839	A	19990504	200016	E
US 6119146	A	20000912	US 199872216	A	19980504	200046	E

Priority Applications (no., kind, date): US 199872216 A 19980504

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1999057629	A1	EN	46	4		
National Designated States,Original	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
AU 199937839	A	EN			Based on OPI patent	WO 1999057629

Original Publication Data by Authority...**Claims:**said human interface coupled to said node;said first interface device comprising:a video encoder coupled to said processor subsystem and said transmission line,said video encoder placing a stream of video information received from said processor subsystem onto said transmission line;a **first transceiver** coupled to said processor subsystem and said transmission line,said **first transceiver** injecting a **first** set of data **signals** received from said processor subsystem into said stream of video information;said **second** interface comprising:a video decoder coupled to said transmission line to receive said stream of video information and to said video monitor, anda second transceiver coupled to...

17/3,K/4 (Item 4 from file: 350) Links

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0008069734 *Drawing available*

WPI Acc no: 1997-165608/199715

Related WPI Acc No: 2002-265940

XRPX Acc No: N1997-136355

Service choice for mobile terminal with satellite or ground links - has transceivers and antenna for communication with satellite or ground stations and reregistration procedure for link failures

Patent Assignee: AMSC SUBSIDIARY CORP (AMSC-N); MOBILE SATELLITE VENTURES LP (MOBI-N); MOTIENT SERVICES INC (MOTI-N)

Inventor: CHURAN G G; ROSS D J; TISDALE W R; WARD M K

Patent Family (5 patents, 69 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997007601	A1	19970227	WO 1996US13151	A	19960805	199715	B
AU 199670077	A	19970312	AU 199670077	A	19960805	199727	E
US 5815809	A	19980929	US 1996634305	A	19960416	199846	E
US 20020072389	A1	20020613	US 19952374	P	19950815	200243	E
			US 1996634305	A	19960416		
			US 1998124254	A	19980729		
			US 2001917942	A	20010731		
CA 2229615	C	20021029	CA 2229615	A	19960805	200280	E
			WO 1996US13151	A	19960805		

Priority Applications (no., kind, date): US 2001917942 A 20010731; US 1998124254 A 19980729; US 19952374 P 19950815; US 1996634305 A 19960416

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1997007601	A1	EN	99	21		
National Designated States,Original	AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN					
Regional Designated States,Original	AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 199670077	A	EN			Based on OPI patent	WO 1997007601
US 20020072389	A1	EN			Related to Provisional	US 19952374
					C-I-P of application	US 1996634305
					Continuation of application	US 1998124254
					C-I-P of patent	US 5815809
					Continuation of patent	US 6278861
CA 2229615	C	EN			PCT Application	WO 1996US13151
					Based on OPI patent	WO 1997007601

Original Publication Data by Authority...**Claims:**signal, transmitting the modulated signal to said antenna system, the transmitter including an amplifier, a first converter and associated first frequency synthesizer, a modulator, an **encoder**, multiplexer, **scrambler** and frame **formatter** for at least one of voice, fax, and data,the **receiver** accepting the **first** satellite message from the antenna system and converting the first satellite message into at least one of voice, **data**, fax and signaling signals, at least one of the voice, data and **fax** signals routed to the user interface system, the **receiver** including a second **converter** with an associated second frequency synthesizer, a demodulator, a decoder, demultiplexer, descrambler and frame unformatter for at least one of voice, fax, and data;a.

20/3,K/1 (Item 1 from file: 350) [Links](#)

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0013041659 *Drawing available*

WPI Acc no: 2003-120889/200311

XRPX Acc No: N2003-096194

Computerized processing of multimedia channels for multimedia simulcast, involves concurrently transmitting first group of channels with second group of channels to multimedia subscribers

Patent Assignee: MOXI DIGITAL INC (MOXI-N); PERLMAN S G (PERL-I)

Inventor: **PERLMAN S G**

Patent Family (3 patents, 98 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002098133	A1	20021205	WO 2002US15858	A	20020517	200311	B
US 20020184506	A1	20021205	US 2001871415	A	20010530	200315	E
AU 2002311952	A1	20021209	AU 2002311952	A	20020517	200452	E

Priority Applications (no., kind, date): US 2001871415 A 20010530

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2002098133	A1	EN	65	22		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
AU 2002311952	A1	EN			Based on OPI patent	WO 2002098133

Inventor: **PERLMAN S G** ...NOVELTY - The method involves encrypting a first group of multimedia channels using a second type of encryption to generate a second group of **encrypted multimedia channels**. The first group of multimedia channels is concurrently transmitted with the second group of multimedia channels to multimedia subscribers which have multimedia receivers that can... Original Publication Data by AuthorityInventor name & address:**PERLMAN S G**... **Perlman, Stephen G**...**PERLMAN, Stephen, G** **Original Abstracts:** A computer-implemented method is described for processing **multimedia channels** comprising: **encrypting a first group of multimedia channels using a first type of encryption to produce a first group of encrypted multimedia channels; encrypting the first group of multimedia channels using a second type of encryption to produce a second group of encrypted multimedia channels; concurrently transmitting the first group of encrypted multimedia channels with the second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting the first group of encrypted multimedia channels and/or the second group of multimedia channels.** Also described is a method comprising: receiving a plurality of channels from content providers at a cable headend; simulcasting premium cable channels to a plurality of subscribers in both a **first encrypted** format and a second encrypted format; and transmitting non-premium channels to the plurality of subscribers in a non-encrypted format... A computer-implemented method is described for processing **multimedia channels** comprising: **encrypting a first group of multimedia channels using a first type of encryption to produce a first group of encrypted multimedia channels; encrypting the first group of multimedia channels using a second type of encryption to produce a second group of encrypted multimedia channels; concurrently transmitting the first group of encrypted multimedia channels with the second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting the first group of encrypted multimedia channels and/or the second group of multimedia channels.** Also described is a method comprising: receiving a plurality of channels from content providers at a cable headend; simulcasting premium cable channels to a plurality of subscribers in both a **first encrypted** format and a **second encrypted** format; and transmitting non-premium channels to the plurality of subscribers in a non-encrypted format... **Claims:** What is claimed is: 1. A computer-implemented method for processing **multimedia channels** comprising: **encrypting a first group of multimedia channels using a first type of encryption to produce a first group of encrypted multimedia channels; encrypting said first group of multimedia channels using a second type of encryption to produce a second group of encrypted multimedia channels; concurrently transmitting said first group of encrypted multimedia channels with said second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting said first group of encrypted multimedia channels and/or said second group of multimedia channels.**

20/3,K/2 (Item 2 from file: 350) [Links](#)

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0012962145 *Drawing available*

WPI Acc no: 2003-039249/200303

XRPX Acc No: N2003-030635

Computer-implemented multimedia stream processing method for multimedia system, involves decrypting encrypted multimedia stream from specified point using stored stream of conditional access data

Patent Assignee: MOXI DIGITAL INC (MOXI-N); PERLMAN S G (PERL-I); SLEATOR M (SLEA-I)

Inventor: **PERLMAN S G**; SLEATOR M

Patent Family (4 patents, 98 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020116705	A1	20020822	US 2001790076	A	20010220	200303	B
WO 2002073966	A2	20020919	WO 2002US5206	A	20020212	200303	E
AU 2002240447	A1	20020924	AU 2002240447	A	20020212	200433	E
AU 2002240447	A8	20051006	AU 2002240447	A	20020213	200612	E

Priority Applications (no., kind, date): US 2001790076 A 20010220

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20020116705	A1	EN	26	15	
WO 2002073966	A2	EN			
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW				
Regional Designated	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT				

States,Original	SD SE SL SZ TR TZ UG ZM ZW					
AU 2002240447	A1		EN		Based on OPI patent	WO 2002073966
AU 2002240447	A8		EN		Based on OPI patent	WO 2002073966

Computer-implemented multimedia stream processing method for multimedia system, involves decrypting encrypted multimedia stream from specified point using stored stream of conditional access data Inventor: **PERLMAN S G**...

Alerting Abstract ...**NOVELTY** - An encrypted multimedia stream stored in a storage unit (360), is decrypted from a specific point using stored stream of conditional access data, in response to user request, to playback the encrypted multimedia stream from the specific point. ... **ADVANTAGE** - Prevents user from viewing subscription based channels by frequently encrypting the multimedia content using series of encryption keys. Original Publication Data by Authority Inventor name & address: **PERLMAN S G**... **PERLMAN S G**... **Perlman, Stephen G**... **PERLMAN, Stephen, G** **Original Abstracts:** A computer-implemented method is disclosed comprising: storing a first encrypted multimedia stream on a storage device as the stream is broadcast by a content provider; storing a stream of conditional access data on the storage device, the stream of conditional access data associated with the multimedia stream; and decrypting the first encrypted multimedia stream from a specified point within the encrypted multimedia stream using the stream of conditional access data, responsive to a user request to play back the encrypted multimedia stream from the specified point. ... A computer-implemented method is disclosed comprising: storing a first encrypted multimedia stream on a storage device as the stream is broadcast by a content provider; storing a stream of conditional access data on the storage device, the stream of conditional access data associated with the multimedia stream; and decrypting the first encrypted multimedia stream from a specified point within the encrypted multimedia stream using the stream of conditional access data, responsive to a user request to play back the encrypted multimedia stream from the specified point. **Claims:** What is claimed is: 1. A computer-implemented method comprising: storing a first encrypted multimedia stream on a storage device as said stream is broadcast by a content provider; storing a stream of conditional access data on said storage device, said stream of conditional access data associated with said multimedia stream; and decrypting said first encrypted multimedia stream from a specified point within said encrypted multimedia stream using said stream of conditional access data, responsive to a user request to play back said encrypted multimedia stream from said specified point.

20/3,K/3 (Item 3 from file: 350) [Links](#)

Derwent WPIX

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0012864561 *Drawing available*

WPI Acc no: 2002-723475/200278

XRPX Acc No: N2002-570385

Efficient storing and processing of multimedia content e.g. for intelligently processing and storing several independent broadcast multimedia streams, involves receiving broadcast signal containing several encrypted multimedia channels

Patent Assignee: FITZHARDINGE J (FITZ-I); MOXI DIGITAL INC (MOXI-N); PERLMAN S G (PERL-I); DIGEO INC (DIGE-N)

Inventor: FITZHARDINGE J; **PERLMAN S G**

Patent Family (5 patents, 98 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002076088	A2	20020926	WO 2002US8543	A	20020318	200278	B
US 20020136406	A1	20020926	US 2001277580	P	20010320	200278	E
			US 2001877990	A	20010608		
AU 2002306776	A1	20021003	AU 2002306776	A	20020318	200432	E
AU 2002306776	A8	20051013	AU 2002306776	A	20020318	200611	E
US 7046805	B2	20060516	US 2001277580	P	20010320	200633	E
			US 2001877990	A	20010608		

Priority Applications (no., kind, date): US 2001277580 P 20010320; US 2001877990 A 20010608

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2002076088	A2	EN	67	22	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL				

	TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW									
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW									
US 20020136406	A1	EN				Related to Provisional				US 2001277580
AU 2002306776	A1	EN				Based on OPI patent				WO 2002076088
AU 2002306776	A8	EN				Based on OPI patent				WO 2002076088
US 7046805	B2	EN				Related to Provisional				US 2001277580

Efficient storing and processing of multimedia content e.g. for intelligently processing and storing several independent broadcast multimedia streams, involves receiving broadcast signal containing several encrypted multimedia channels
...Inventor: **PERLMAN S G** ...NOVELTY - The method involves receiving a broadcast signal containing several **encrypted multimedia channels**. The **encrypted multimedia channels** are stored in a hard drive partition. The **encrypted multimedia channels** are decrypted to generate decrypted multimedia channels. The decrypted multimedia channels are stored to a second hard drive partition. Original Publication Data by AuthorityInventor name & address:**PERLMAN S G**...**PERLMAN S G**...**Perlman, Stephen G**...**Perlman, Stephen G**...**PERLMAN, Stephen, G** **Original Abstracts:**A method is described comprising: receiving a broadcast signal containing a **plurality of encrypted multimedia channels**; storing the **encrypted multimedia channels** in a **first hard drive partition**; and decrypting one or more of the **encrypted multimedia channels** to generate one or more decrypted **multimedia channels**; and storing the **decrypted multimedia channels** to a **second hard drive partition**... A method is described comprising: receiving a broadcast signal containing a plurality of **encrypted multimedia channels**; storing the **encrypted multimedia channels** in a **first hard drive partition**; and decrypting one or more of the **encrypted multimedia channels** to generate one or more decrypted **multimedia channels**; and storing the decrypted **multimedia channels** to a **second hard drive partition**... A method is described comprising: receiving a broadcast signal containing a plurality of **encrypted multimedia channels**; storing the **encrypted multimedia channels** in a **first hard drive partition**; and decrypting one or more of the **encrypted multimedia channels** to generate one or more decrypted **multimedia channels**; and storing the decrypted **multimedia channels** to a **second hard drive partition**... **Claims:**What is claimed is:1. A method comprising:receiving a broadcast signal containing a plurality of **encrypted multimedia channels**;storing said **encrypted multimedia channels** in a **first hard drive partition**; anddecrypting one or more of said **encrypted multimedia channels** to generate one or more decrypted multimedia channels; andstoring said decrypted **multimedia channels** to a **second hard drive partition**... What is claimed is:1. A method comprising: receiving a broadcast signal containing a plurality of **encrypted multimedia channels**;storing said **encrypted multimedia channels** in a **first hard drive partition**;decrypting one or more of said **encrypted multimedia channels** stored in the **first hard drive partition** to generate one or more decrypted **multimedia channels**; andstoring said decrypted **multimedia channels** to a **second hard drive partition** prior to rendering said **decrypted multimedia channels** on a display.

20/3,K/4 (Item 4 from file: 350) [Links](#)

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0010288440 *Drawing available*

WPI Acc no: 2000-601774/200057

XRPX Acc No: N2000-445317

Transmission of digital data via MPEG compressed video channel for remotely located client terminals, involves sending MPEG data stream to remote location, to generate, digitize and process analog video signal

Patent Assignee: WEBTV NETWORKS INC (WEBT-N)

Inventor: BARRETT P T; **PERLMAN S G**; WASSERMAN S; WASSERMAN S C

Patent Family (3 patents, 20 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000046992	A1	20000810	WO 2000US3235	A	20000208	200057	B
US 6412112	B1	20020625	US 1998107267	A	19980630	200246	E
			US 1999246275	A	19990208		
US 6874161	B1	20050329	US 1998107267	A	19980630	200522	NCE

Priority Applications (no., kind, date): US 1998107267 A 19980630; US 1999246275 A 19990208

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2000046992	A1	EN	32	9		

National Designated States,Original	JP					
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
US 6412112	B1	EN			C-I-P of application	US 1998107267

Transmission of digital data via MPEG compressed video channel for remotely located client terminals, involves sending MPEG data stream to remote location, to generate, digitize and process analog video signal ...Inventor: PERLMAN S G
Alerting Abstract ... USE - For transmitting digital data over MPEG compressed video channel to WEBTV client terminals.Original Publication Data by Authority...Inventor name & address:Perlman, Stephen G... ..Perlman, Stephen G...
...PERLMAN, Stephen, G Claims:A method of transmitting digital data through an MPEG compressed video channel, comprising:providing a set of digital data;creating a mapping between the digital data in the set of digital data and MPEG run-level codes;creating an...

20/3,K/5 (Item 5 from file: 350) [Links](#)

Derwent WPIX

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0008732665 *Drawing available*

WPI Acc no: 1998-274554/199825

XRPX Acc No: N1998-215710

Method of compressing continuous indistinct data stream e.g. multimedia and graphic data in computer network - involves determining whether data stream is compressible by examining data stream to determine whether header of data stream matches predetermined header type

Patent Assignee: WEBTV NETWORKS (WEBT-N); WEBTV NETWORKS INC (WEBT-N)

Inventor: GILLON W G; MCFADDEN A

Patent Family (7 patents, 78 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 844768	A2	19980527	EP 1997306923	A	19970905	199825	B
WO 1998022880	A1	19980528	WO 1997US21229	A	19971118	199827	E
JP 10190471	A	19980721	JP 1997323082	A	19971125	199839	E
AU 199852643	A	19980610	AU 199852643	A	19971118	199843	E
US 5838927	A	19981117	US 1996754164	A	19961122	199902	E
KR 1998042182	A	19980817	KR 199758631	A	19971107	199937	E
KR 540495	B1	20060309	KR 199758631	A	19971107	200724	E

Priority Applications (no., kind, date): US 1996754164 A 19961122

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 844768	A2	EN	18	6		
Regional Designated States,Original	AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI					
WO 1998022880	A1	EN				
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States,Original	AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
JP 10190471	A	JA	9	10		
AU 199852643	A	EN			Based on OPI patent	WO 1998022880
KR 1998042182	A	KO		10		
KR 540495	B1	KO		6	Previously issued patent	KR 9842182

Method of compressing continuous indistinct data stream e.g. multimedia and graphic data in computer network...

Inventor: GILLON W G... Original Publication Data by AuthorityInventor name & address:GILLON W G... ..Gillon, William

G., 77 Oceanside Drive, Daly City, California 94015, US.....GILLON WILLIAM G.....GILLON W G.....Gillon,
William G.....GILLON, WILLIAM, G., 77 OCEANSIDE DRIVE, DALY CITY, CA 94015, US

[File 348] **EUROPEAN PATENTS** 1978-2007/ 200729

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see *HELP NEWSIPCR*.

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070726UT=20070719

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*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see *HELP NEWSIPCR*.

Set	Items	Description
S1	49349	S (COMMERCIAL OR VIDEO OR SCRAMBL??? OR MULTIMEDIA OR SIMULCAST??? OR BROADCAST???) (3N) (CHANNEL?? OR FREQUENCIES OR FREQUENCY OR STREAM?? OR KEY?? OR FORMAT?)
S2	9085	S (EPG OR PROGRAM()GUIDE?? OR PROGRAM? OR SOFTWARE OR APG OR IPG OR ADVANCED OR (ELECTRONIC OR INTERACTIVE)) (5N) (PROGRAM?() (GUIDE?? OR MENU?? OR LIST??? OR SCHEDULE?? OR GRID??))
S3	6586	S (ENCRYPT??? OR ENCOD??? OR COMPRESS??? OR EKT OR ENCRYPT?()KEY()TRANSPORT OR SALT OR SPEECH()APPLICATION()LANGUAGE()TAGS) (3N) (S1 OR S2)
S4	494	S (DECRYPT? OR DECOD??? OR DECOMPRESS??? OR MPEG?) (3N)S2
S5	91039	S (PRIMARY OR FIRST OR ONE OR MASTER OR INTITIAL OR OLD OR OUTDATED OR OLDER OR OLDEST) (3N) (RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S6	51532	S (SECOND? OR OTHER OR NEXT OR SLAVE OR NEW OR NEWER OR LATEST OR MODERN OR DIFFERENT) (3N) (SATELLITE()DISH RECEIVER?? OR TV OR TRANSCEIVER?? OR PANEL??)
S7	2745	S LEGACY(3N)SYSTEM??
S8	108	S AU=(GILLON, W? OR GILLON W? OR PERLMAN, S? OR PERLMAN S?)
S9	198305	S (STB OR SET()TOP()BOX OR SETTOP()BOX OR RECEIVER?? OR STT OR SET()TOP()TERMINAL?? OR (CATV OR SUBSCRIBER OR CABLE) (3N) (BOX OR CONVERTER))
S10	7	S S4(20N) (S5 AND S6)
S11	1	S S4(20N)S7
S12	190	S S4(3N)S9
S13	9	S S12(3N)S5
S14	4	S, S13 AND S6
S15	0	S S14 NOT (S10 OR S11)
S16	5	S S13 NOT (S10 OR S11)
S17	0	S S12 AND S8
S18	0	S S4 AND S8
S19	12	S S3 AND S8
S20	12	S S19 NOT (S10 OR S11 OR S13)
S21	10	S S20 NOT AD=20010815:20070730/PR
S22	10	S S21 AND (IC=H04N? OR IC=H04L?)

10/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01968460

Apparatus for generating on-screen display in digital TV

Vorrichtung zur Erzeugung einer Bildschirmanzeige in digitalen Fernsehempfängern

Dispositif pour produire un affichage sur écran dans des récepteurs de télévision numériques

Patent Assignee:

• **Humax Co., Ltd.;** (4212282)

Humax Bldg., 212-1 Yubang-Dong, Yougin City, Kyonggi-Do 449-080; (KR)

(Applicant designated States: all)

Inventor:

- **Choi, Myeong Seok**
202, 328-3, Suhjung-dong Suhyun-si, Kyunggi-do, 463-050; (KR)

Legal Representative:

- **TER MEER - STEINMEISTER & PARTNER GbR (100061)**
Patentanwalte, Mauerkircherstrasse 45; 81679 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1587313	A2	20051019	(Basic)
	EP	1587313	A3	20060614	
Application	EP	2005006407		20050323	
Priorities	KR	204024820		20040412	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; MC; NL; PL; PT; RO; SE; SI; SK; TR;

Extended Designated States:

AL; BA; HR; LV; MK; YU;

International Patent Class (V7): H04N-005/445

IPC	Level	Value	Position	Status	Version	Action	Source	Office
H04N-005/445	A	I	F	B	20060101	20050720	H	EP

Abstract Word Count: 115

NOTE: 2

NOTE: Figure number on first page: 2

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200542	336
SPEC A	(English)	200542	3305
Total Word Count (Document A) 3642			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 3642			

Specification: ...provides a user interface for indicating states of the digital TV and setting functions thereof. Preferably, the OSD associated with the digital broadcast includes an **electronic program guide**, a digital channel list, a digital channel search menu, a digital broadcast setup menu, or the like. Preferably, the OSD associated with the analog broadcast... video signals, and an MPEG decoder 222 for processing the divided audio and video signals.

A digital audio signal, into which the MPEG decoder 222 **decodes** the audio signal output from the demultiplexer 220, is output to a speaker 264 via an audio digital-to-analog converter (DAC) 224 and an analog amplifier 262.

A digital video signal, into which the MPEG decoder 222 **decodes** the video signal output from the demultiplexer 220, is input to an image processor 250, and is then output to a display 280 after being... field, time information, and menu information, which are overlaid on broadcast images on the display 280.

The OSD associated with a digital broadcast includes an **Electronic Program Guide (EPG)**, a digital channel list, a digital channel search menu, a digital TV setup menu, and the like. The OSD associated with an analog broadcast includes...

10/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00789345

Program guide signal receiver for television

Fernsehprogrammführungssignalempfänger

Recepteur d'un signal de guide de programmes pour la television

Patent Assignee:

• **SAMSUNG ELECTRONICS CO., LTD.;** (1093729)

416 Maetan 3-Dong, Paldal-gu; Suwon-City, Kyungki-do 441-370; (KR)

(Proprietor designated states: all)

Inventor:

• **Do, Young-Soo**

515-9, Guwoon-dong, Kwonsung-gu; Suwon-city, Kyungki-do; (KR)

Legal Representative:

• **Chugg, David John (78311)**

Appleyard Lees, 15 Clare Road, Halifax, West Yorkshire HX1 2HY; (GB)

	Country	Number	Kind	Date	
Patent	EP	735750	A2	19961002	(Basic)
	EP	735750	A3	19990908	
	EP	735750	B1	20060215	
Application	EP	96302271		19960329	
Priorities	KR	957525		19950331	

Designated States:

DE; FR; GB;

International Patent Class (V7): H04N-005/445

IPC	Level	Value	Position	Status	Version	Action	Source	Office
H04N-0005/445	A	I	F	B	20060101	19960627	H	EP

Abstract Word Count: 174

NOTE: 3

NOTE: Figure number on first page: 3

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200607	1199
CLAIMS B	(German)	200607	987
CLAIMS B	(French)	200607	1417
SPEC B	(English)	200607	3553
Total Word Count (Document A) 0			
Total Word Count (Document B) 7156			
Total Word Count (All Documents) 7156			

Specification: ...corresponding to said second signal is not present in the TV signal and the digital video signal; and the mixer is arranged for mixing said **decoded program guide** signal as the main screen signal with one of the TV signal, the digital video signal, and said video data stored in said storing unit, which corresponds to said second signal and which is selectively compressed by said compressing unit, as a sub-screen signal.

Preferably, said mixer mixes said **decoded program guide** signal with the TV signal if the program selected by said second signal is present in the TV signal, with the digital video signal if... ..program corresponding to said second signal is not present in the TV signal and the digital video signal;

mixing by means of a mixer said **decoded** program guide signal as a main screen signal with said one of the TV signal, the digital video signal, and said video data stored in ... mode (hereinafter "DBS selection signal"), a signal for selecting a TV signal receiving mode (hereinafter "TV selection signal") or a signal for selecting a program guide mode (hereinafter "**program guide** selection signal"), which are generated by a user selecting and depressing a certain key of key inputting unit 2. A first tuner 4 tunes to a DBS signal in response to input of the DBS selection signal, and a DBS decoder 10 decodes a **program guide** signal and a DBS video signal which are included in the DBS signal. On the other hand, a second tuner 8 tunes to a TV... signal, and a TV signal processing unit 14 converts the tuned TV signal to a signal adapted for display. A storing unit 12 stores the **program guide** signal included in the DBS signal decoded by DBS decoder 10 as position data, channel data and graphic data. A signal compressing unit 20 compresses...

Claims: ...compressing unit (20) for compressing the video data corresponding to the program selected based on said second signal; and a mixer (22) for mixing said **decoded** program guide signal as a main screen signal with said compressed video data as a sub-screen signal.

3. A receiver as claimed in claim 2, the receiver further comprising a display (18) for displaying said signals mixed by said mixer (22), wherein said **decoded** **program guide** signal is displayed as a main screen signal and said compressed video signal is displayed as a sub-screen signal.

4. A receiver as claimed in claim 2, wherein said information included in the **program guide** signal is further comprised of position data, channel data, and graphic data.

5. A receiver as claimed in any one of claims 2 - 4, further... for tuning said DBS signal in response to said first signal.

6. A receiver as claimed in any one of claims 2 - 5 wherein the **program guide** signal includes information identifying a plurality of programs and a digital video signal including the plurality of programs.

7. A receiver according to claim 6... to said second signal is not present in the TV signal and the digital video signal; and

the mixer (22) is arranged for mixing said **decoded** **program guide** signal as the main screen signal with one of the TV signal, the digital video signal, and said video data stored in said storing unit (12), which corresponds to said second signal and which is selectively compressed by said compressing unit (20), as a sub-screen signal.

10. A receiver as claimed in claim 9, wherein said mixer (22) mixes said **decoded** **program guide** signal with the TV signal if the program selected by said second signal is present in the TV signal, with the digital video signal if... program corresponding to said second signal is not present in the TV signal and the digital video signal;

mixing by means of a mixer said **decoded** **program guide** signal as a main screen signal with said one of the TV signal, the digital video signal, and said video data stored in said storing unit, which corresponds to said second signal and which is selectively compressed...

10/3K/3 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01498227

MULTI-OUT BROADCASTING RECEIVER SYSTEM USING SINGLE SET-TOP BOX HAVING PLURAL TUNERS
SYSTEME DE RECEPTION DE DIFFUSION A SORTIES MULTIPLES UTILISANT UN DECODEUR UNIQUE EQUIPE
DE PLUSIEURS SYNTONISEURS

Patent Applicant/Patent Assignee:

- **KAONMEDIA CO LTD**; Ssangyong IT Twin Tower A-901, 442-17 Sangdaewon-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do 462-120
KR; KR (Residence); KR (Nationality)
(For all designated states except: US)
- **LIM Hwa-Seop**; A 311-805, Hyundae Apt., 1306, Gwonseon-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-740
KR; KR (Residence); KR (Nationality)

- **KIM In-Ki**; 509-304 Sindong-a Daewon Apt., Gwonseon-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-719
KR; KR (Residence); KR (Nationality)
- **KIM Hyun-Chul**; 106-1702 Ssangyong Apt., Mangpo-dong, Yongtong-gu, Suwon-si, Gyeonggi-do 442-400
KR; KR (Residence); KR (Nationality)
- **KIM Soo-Won**; 223-702 Byuksan Apt., Yongtong-dong, Yongtong-gu, Suwon-si, Gyeonggi-do 442-470
KR; KR (Residence); KR (Nationality)

Patent Applicant/Inventor:

- **LIM Hwa-Seop**
A 311-805, Hyundai Apt., 1306, Gwonseon-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-740; KR; KR (Residence);
KR (Nationality);
- **KIM In-Ki**
509-304 Sindong-a Daewon Apt., Gwonseon-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-719; KR; KR (Residence);
KR (Nationality);
- **KIM Hyun-Chul**
106-1702 Ssangyong Apt., Mangpo-dong, Yongtong-gu, Suwon-si, Gyeonggi-do 442-400; KR; KR (Residence); KR
(Nationality);
- **KIM Soo-Won**
223-702 Byuksan Apt., Yongtong-dong, Yongtong-gu, Suwon-si, Gyeonggi-do 442-470; KR; KR (Residence); KR
(Nationality);

Legal Representative:

- **YOON YANG KIM SHIN & YU(agent)**
11th Floor, Namkang Bldg., 1340-6 Seocho-dong, Seocho-gu, Seoul 137-861; KR;

	Country	Number	Kind	Date
Patent	WO	200740346	A1	20070412
Application	WO	2006KR4002		20061004
Priorities	KR	1020050094067		20051006

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HN; HR; HU; ID; IL;
IN; IS; JP; KE; KG; KM; KN; KP; KZ; LA;
LC; LK; LR; LS; LT; LU; LV; LY; MA; MD;
MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI;
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU;
SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ;
TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC;
VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: Korean
Fulltext word count: 8068

Claims:

...4, wherein said second broadcast processing controller includes functions of, following said RF remote control signal, system configuration, menu setup, PVR (Personal Video Recorder) control, **EPG (Electronic Program Guide)** control.

1161 The multi-out broadcasting receiver system according to any one of Claims 1 to wherein said first filter and said third filter are... broadcast signal; an MPEG decoder for receiving and decoding said digital broadcast signal from said broadcast signal receiver and further for D/A converting said **decoded** signal; a broadcast signal modulator for receiving said broadcast signal from said **MPEG decoder**, modulating said broadcast signal to a predetermined broadcast frequency, and outputting said modulated signal to said second filter; a remocon signal retriever for retrieving said... 23, wherein said second broadcast processing controller includes functions of, following said RF remote control signal, system configuration, menu setup, PVR (Personal Video Recorder) control, **EPG (Electronic Program Guide)** control.

11251 The multi-out broadcasting receiver system according to Claim 23, wherein said A/V remote broadcast signal that is outputted from said broadcast...

10/3K/4 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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01495583

MULTI-OUT BROADCASTING RECEIVER SYSTEM USING SINGLE SET-TOP BOX

SYSTEME RECEPTEUR DE DIFFUSION A SORTIES MULTIPLES UTILISANT UN DECODEUR UNIQUE

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	Country	Number	Kind	Date
Patent	WO	200737660	A1	20070405
Application	WO	2006KR3947		20060929
Priorities	KR	1020050092426		20050930

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HN; HR; HU; ID; IL;
IN; IS; JP; KE; KG; KM; KN; KP; KZ; LA;
LC; LK; LR; LS; LT; LU; LV; LY; MA; MD;
MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI;
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU;
SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ;
TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC;
VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: Korean
Fulltext word count: 7863

Claims:

...3, wherein said second broadcast processing controller includes functions of, following said RF remote control signal, system configuration, menu setup, PVR (Personal Video Recorder) control, **EPG (Electronic Program Guide)** control.

1151 The multi-out broadcasting receiver system using single set-top box according to any one of Claims 1 to 4, wherein said first... broadcast signal; an MPEG decoder for receiving and decoding said digital broadcast signal from said broadcast signal receiver and further for D/A converting said **decoded** signal; a broadcast signal modulator for receiving said broadcast signal from said **MPEG decoder**, modulating said broadcast signal to a predetermined broadcast frequency, and outputting said modulated signal to said second filter, a remocon signal retriever for retrieving said... 21, wherein said second broadcast processing controller includes functions of, following said RF remote control signal, system configuration, menu setup, PVR (Personal Video Recorder) control, **EPG (Electronic Program Guide)** control.

11231 The multi-out broadcasting receiver system using single set-top box according to Claim 21, wherein said A/V remote broadcast signal that...

ADVANCED DIGITAL TV SYSTEM
SYSTEME DE TV NUMERIQUE EVOLUE

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	Country	Number	Kind	Date
Patent	WO	200715047	A2	20070208
Application	WO	2006GB2463		20060703
Priorities	US	2005705430		20050804

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HN; HR; HU; ID; IL;
IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ;
LA; LC; LK; LR; LS; LT; LU; LV; LY; MA;
MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU;
SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM;
TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;
ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 27997

Detailed Description:

...through a stack of pages of information.

There is thus provided in accordance with a preferred embodiment of the present invention, a system for displaying **electronic program guide** information about a plurality of video items on a screen, the system including a display module to display a plurality of pages layering into the... at the same time, the variable number being based on the maximum processing speed of the decoder and the size of the video images for **decoding**.

There is also provided in accordance with still another preferred embodiment of the present invention, a set-top box system, including a **decoder** operative to receive a compressed frame which is too large for **decoding** by the **decoder**, and **decode** only a sub-region of the compressed frame.

There is also provided in accordance with still another preferred embodiment of the present invention, a method for displaying **electronic program guide** information about a plurality of video items. on a screen, the method including displaying a plurality of pages layering into the screen, each of the...

Claims:

What is claimed is:

CLAIMS

1. A system for displaying **electronic program guide** information about a plurality of video items on a screen, the system comprising: a display module to display a plurality of pages layering into the... at the same time, the variable number being based on the maximum processing speed of the decoder and the size of the video images for **decoding**.

55. A set-top box system, comprising a **decoder** operative to: receive a compressed frame which is too large for **decoding** by the **decoder**, and **decode** only a sub-region of the compressed frame.

56. A method for displaying **electronic program guide** information about a plurality of video items on a screen, the method comprising: displaying a plurality of pages layering into the screen, each of the...

10/3K/6 (Item 4 from file: 349) [Links](#)

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01358441

METHOD AND APPARATUS FOR INTERACTING WITH BROADCAST PROGRAMMING

PROCEDE ET APPAREIL POUR UNE INTERACTION AVEC PROGRAMMATION DE DIFFUSION

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	Country	Number	Kind	Date
Patent	WO	200641618	A2	20060420
Application	WO	2005US33306		20050916
Priorities	US	2004611405		20040919
	US	2005229383		20050915

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK;
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK;
MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM;
PG; PH; PL; PT; RO; RU; SC; SD; SE; SG;
SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ;
UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 141102

Detailed Description:

...programming can be uniquely identified by a combination of the entries in date field 2a and time field 2b. When a data structure includes the **programming schedule** of only one station, date and time are sufficient information for identifying information related to an item of programming. However, when a data structure includes...

10/3K/7 (Item 5 from file: 349) [Links](#)

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00935402

IMPROVEMENTS TO TELEVISION SYSTEMS

AMELIORATIONS APPORTEES A DES SYSTEMES DE TELEVISION

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	Country	Number	Kind	Date
Patent	WO	200269642	A1	20020906
Application	WO	2002GB829		20020225
Priorities	GB	20014521		20010223

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 5051

Detailed Description:

...Preferably, the icons include links to the selected information in the secondary broadcasts.

According to another aspect of the present invention, there is provided an **electronic program guide** that is linked to information that is provided in a secondary broadcast, for example, teletext, the guide including means for allowing user selections of the information... information and a presentation system for presenting the information to the user.

According to a further aspect of the present invention there is provided An **electronic program guide** linked to information that is provided in a secondary broadcast, the guide having a selector system for allowing user selections of the information and a... applied also to other embodiments of secondary broadcasts for digital TV, such as defined by the DVB and ATSC broadcast bodies, that can receive and **decode** content encoded in NRMG-5, Java, HTML or other formats.

The invention further provides for a number of different means whereby secondary service data can... The preferred embodiment for information services broadcast in the VBI of an analogue broadcast is one where the primary cached information service is received alongside **electronic 25' programme guide** listings data downloads that occur during approx. 3 to 4 download windows in each day of approx. 30 minutes duration each.

The preferred embodiment for...

Claims:

...television system according to any of claims 6 to 8, wherein the icons include links to the selected information in the secondary broadcasts.

10 An **electronic program guide** linked to information that is provided in a secondary broadcast, the guide having means for allowing user selections of the information and means for causing... services encoded to DVB TeletextExtensions standard ETSI EN 300 472 v1 2 or other encoding standards and broadcast in private data sections of an **MPEG2** digital TV broadcast.

13 A television system according to claim 12, wherein the **secondary** broadcasts for digital TV can receive and **decode** encoded content encoded in NIHEG-5, Java, or HTNIL formats.

14 A television system comprising a display for displaying a user interface, a selector system... adapted to present the information as part of the user interface.

16 A television system according to claim 14, wherein the user interface is an **interactive electronic program guide**.

17 A television system according to claim 14, wherein the secondary broadcast is teletext.

18 A television system according to claim 14, wherein the secondary

11/3K/1 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01194429

SYSTEMS AND METHODS FOR PROVISIONING A HOST DEVICE IN A CABLE SYSTEM

SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR DES SERVICES AMELIORES A UN DISPOSITIF HOTE DANS UN SYSTEME DE TELEVISION PAR CABLE

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	Country	Number	Kind	Date
Patent	WO	200501640	A2-A3	20050106
Application	WO	2004US19455		20040618
Priorities	US	2003480391		20030620
	US	2003712822		20031112
	US	2003712832		20031112
	US	2003712870		20031112
	US	2003712890		20031112
	US	2004769382		20040130

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;

IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US (patent); UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 54921

Detailed Description:

...are multiplexed into the broadcast transport streams.

Inband data is typically sent when a large amount of data is involved. Examples include transferring replacement extended **program guide** data, core operating systems of the host, navigator applications, etc. Thus, data 825 from the ESS 40 is conveyed to the broadcast file system 820... host to communicate to the ESS. The ESS can also authorize a STB for legacy type capabilities by communicating an authorization request 828 via the **legacy** provisioning/conditional access **system 1b**. Any other **legacy** command or configuration message implemented by the provisioning/conditional access system 1b can be signaled by the ESS.

Figure 9b illustrates communication between the ESS... using a Motorola based cable distribution network. In this embodiment, all messages are encoded using the proprietary DCII message formats. These messages are carried in **MPEG-2** private sections that are delivered via **MPEG-2** transport streams. The conditional access module and host addressing is embedded in the DCII message

35
format and the ESS is required to not... the broadcast transport streams. However, typically inband enhanced service communication is used for transferring larger files, such as the aforementioned operating system code and extended **program guide** data. DCII messages received by the conditional access module addressed to the host have the DCII proprietary encapsulation stripped off with the payload prior to..

16/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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00850867

METHOD AND DEVICE FOR TRANSMITTING AND RECEIVING TELETEXT PAGES

VERFAHREN UND VORRICHTUNG ZUM SENDEN UND EMPFANGEN VON TELETEXTSEITEN

PROCEDE ET DISPOSITIF PERMETTANT D'ENVOYER ET DE RECEVOIR DES PAGES DE TELETEXTE

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Legal Representative:

- **Schmitz, Herman Jan Renier et al (75402)**
INTERNATIONAAL OCTROOIBUREAU B.V., Prof. Holstlaan 6; 5656 AA Eindhoven; (NL)

	Country	Number	Kind	Date	
Patent	EP	793888	A1	19970910	(Basic)
	EP	793888	B1	20020515	
	WO	9712485		19970403	
Application	EP	96928642		19960912	
	WO	96IB937		19960912	
Priorities	EP	95202582		19950925	

Designated States:

AT; BE; DE; ES; FR; GB; IT; SE;

International Patent Class (V7): H04N-007/088**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			
Available Text	Language	Update	Word Count
CLAIMS B	(English)	200220	806
CLAIMS B	(German)	200220	783
CLAIMS B	(French)	200220	974
SPEC B	(English)	200220	2348
Total Word Count (Document A) 0			
Total Word Count (Document B) 4911			
Total Word Count (All Documents) 4911			

Specification: ...The invention relates to a method and device for receiving a teletext signal. The invention also relates to a method and device for transmitting an **electronic program guide**, a signal accommodating **program** data forming such an **electronic program guide**, and a storage medium on which such a signal is stored. **BACKGROUND OF THE INVENTION**

A known method of receiving teletext data is described in... ..the invention provides a method and arrangement for receiving a teletext signal as defined in claims 1 and 5, respectively. Herewith is achieved that an **electronic program guide** is created from text items in one or more teletext pages, in which guide the television programs are classified into categories such as themes (sports...

16/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00712238

A DIGITAL TELEVISION SYSTEM CHANNEL GUIDE HAVING A LIMITED LIFETIME

PROGRAMMFUHRER MIT BEGRENZTER GULTIGKEITSDAUER FUR DIGITALES FERNSEHSYSTEM

GUIDE DE PROGRAMMATION A DUREE DE VALIDITE LIMITEE POUR TELEVISION NUMERIQUE

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Deutsche Thomson-Brandt GmbH, Licensing & Intellectual Property, Karl-Wiechert-Allee 74; 30625 Hannover; (DE)

	Country	Number	Kind	Date	
Patent	EP	738449	A1	19961023	(Basic)
	EP	738449	B1	19990908	
	WO	9519091		19950713	
Application	EP	95906748		19950104	
	WO	95US50		19950104	
Priorities	GB	9400101		19940105	

Designated States:

DE; FR; GB; IE; IT; PT; SE;

International Patent Class (V7): H04N-007/16; H04N-007/58**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9936	606
CLAIMS B	(German)	9936	570
CLAIMS B	(French)	9936	755
SPEC B	(English)	9936	4846
Total Word Count (Document A) 0			
Total Word Count (Document B) 6777			
Total Word Count (All Documents) 6777			

Specification: ...events, every thirty minutes the master program guide is updated with new information. However, in the event of an unexpected television program schedule change, the receiver will correct its master program guide within a five minute period, because a master program guide including schedule data for all active virtual channels is transmitted on every transmission channel every two seconds, and because a complete new master program guide takes only two seconds to load.

A brief description of system hardware, suitable for implementing the above-described invention, now follows. In FIGURE 6, ...and an RF modulator 722, and finally, between the IRD unit and a user via a smart card interface and transport IC 708. The master program guide is stored, for example, in RAM 709.

Referring now to FIGURE 8, demodulator/FEC unit 807 acquires, demodulates, and decodes the data signal which is...

16/3K/3 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01041792

A METHOD AND SYSTEM FOR INTERNET CONTENT ACQUISITION ACCORDING TO A PROGRAM GUIDE
PROCEDE ET SYSTEME D'ACQUISITION DE CONTENU INTERNET EN FONCTION D'UN GUIDE DE PROGRAMME

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(Designated only for: US)

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JP(Residence); JP(Nationality); (Designated only for: US)

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	Country	Number	Kind	Date
Patent	WO	200371803	A1	20030828
Application	WO	2003JP1947		20030221
Priorities	US	2002359036		20020221

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 7941

Detailed Description:

...text summary, genre,
title, etc. Additionally, the word "content" means
multimedia content such as music, video clip, news
program, movie, and so on. The phrase "**program** guide,,
describes meta-data such as start time, end time,
duration, title, channel, frequency, and bandwidth.

3 0 It should be noted that the term...preferable content 103) and constraints
104 such as a storage capacity, time, and bandwidth
(thereby reducing preferable content 103 to storable
content 105). Since the **program** guide describes the
availability of content, the user can opt to obtain the
content within a given ...s storage has enough
disk space or when the network has enough bandwidth for
transfer,

Figure 2 shows an example of the structure of the
program guide. There are two kinds of units to describe

the program guide 202: the program section 204, 206f 208f
210, 212, 214 and the segment section 216, 218f 220f 222f

16/3K/4 (Item 2 from file: 349) [Links](#)

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00798316

METHOD AND APPARATUS FOR TRANSMITTING VIDEO AND GRAPHICS IN A COMPRESSED FORM
PROCEDE ET SYSTEME DE TRANSMISSION D'IMAGES VIDEO ET GRAPHIQUES SOUS UNE FORME COMPRISEE

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(Designated only for: US)
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(Designated only for: US)
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(Designated only for: US)
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(Designated only for: US)
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Legal Representative:

• **SHAFFER William L(et al)(agent)**

Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111; US;

	Country	Number	Kind	Date
Patent	WO	200131921	A1	20010503
Application	WO	2000US29806		20001027
Priorities	US	99428066		19991027

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 12976

Claims:

1. Apparatus for encoding an **interactive** program guide having a first portion and a second portion comprising: a first encoder for encoding said first portion; a second encoder for encoding said ...guides and said payloads of said packets from said predicted picture slice-based stream contain slice-based common imagery information of said plurality of **interactive program guide** pages. -41

48 A method of stream recombining and decoding comprising: coupling a plurality of payloads of transport packets of a slice-based portion of ...method of claim 48 wherein said payloads of said plurality of reference stream packets contain slice-based imagery information that changes across a plurality of **interactive program guides** and said payloads of said 30 plurality of predictive stream packets contain slice-based common imagery information of said plurality of **interactive program guide** pages.

51 The method of claim 48 wherein said coupling step

35 further comprises the step of immediately reprogramming said packet identifier filter to receive...

16/3K/5 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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00548498

TRANSACTION SYSTEM FOR TRANSPORTING MEDIA FILES FROM CONTENT PROVIDER SOURCES TO HOME ENTERTAINMENT DEVICES

SYSTEME DE TRANSACTION PERMETTANT D'ACHEMINER DES FICHIERS DEPUIS DES SITES FOURNISSEURS DE PROGRAMMES JUSQU'A DES DISPOSITIFS DE DIVERTISSEMENT AUDIOVISUEL A DOMICILE

Patent Applicant/Patent Assignee:

• **OPEN ENTERTAINMENT INC;**

;;

• **SIMMONS Selwyn D;**

;;

• LUDWIG Carl J;

	Country	Number	Kind	Date
Patent	WO	200011871	A1	20000302
Application	WO	99US19108		19990819
Priorities	US	9897678		19980823

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 8300

Detailed Description:

...with a preferred embodiment, the player/receiver subsystem enables the home user to connect to the transaction server via the communications network to access a **program guide** of available media files which can, for example, be displayed via the home user television set. The user is then able to interactively browse the... Encoded media files are then dynamically encrypted by the content provider site and downloaded directly to the requesting player/receiver. The encrypted files can be **decrypted** solely by the requesting player/receiver. The user can also browse and select media files from web site based media title listings or print guide... player/receiver are preferably stored either on the player/receiver's local or storage means, e.g., a hard disk drive, or on the player/receiver's archive storage means, e.g., removable storage media such as magnetic tape or recordable CD-ROMs.

A preferred encoder subsystem in accordance with the invention functions to encode audio and/or video files from their respective sources, e.g., professional recording equipment, and provide the resultant encoded files (e.g., **MPEG**) to the media server at the content provider site.

A preferred encryptor in accordance with the invention dynamically encrypts files stored on a media server based on instructions received from the transaction server. The encryption format uniquely targets the requesting player/receiver to prevent playback on any other device.

-5

In typical use, the player/receiver first connects to the transaction server, transmits an identifier, including a unique locally generated encryption key and receives authentication from the transaction server. A list of available media files is then transmitted to the player/receiver which in turn displays the list as an **interactive program guide** or menu, preferably on a home television set. Once files are selected from the menu, the player/receiver requests the transaction server to download the..

22/3K/1 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00966495

A SYSTEM AND METHOD FOR IMPROVED TRANSMISSION AND PROCESSING OF MULTIPLE MULTIMEDIA STREAMS

SYSTEME ET PROCEDE POUR TRANSMISSION ET TRAITEMENT MULTIMEDIA AMELIORES A PLUSIEURS CANAUX

Patent Applicant/Patent Assignee:

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Legal Representative:

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	Country	Number	Kind	Date
Patent	WO	2002100109	A2-A3	20021212
Application	WO	2002US14721		20020507
Priorities	US	2001871547		20010530

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04N-007/24	Main
H04N-005/00	

Publication Language: English

Filing Language: English

Fulltext word count: 11741

Detailed Description:

...compression modules 1 01; conditional access ("CA") encryption
modules 103 and 105; and quadrature amplitude modulation ("OAM") modules
110.

The MPEG-2 compression modules 101 **compress** any incoming **video streams** which have not already been compressed according to the MPEG-2 video compression standard. As indicated in Figure 1 1 if the video content has...order to prevent users from viewing multimedia content which they do not have the right to view (e.g., subscription based channels, pay-per-view **channels**, . . . etc) the **multimedia** content is frequently **encrypted** using a series of encryption keys before being transmitted. Accordingly, multimedia systems are generally equipped with conditional access ("CA") subsystems for decrypting the incoming multimedia...to decrypt the multimedia content are transmitted to the CA module 1 01 0 from a secure micro unit 1020. Because the keys used to **encrypt** the **multimedia stream** typically

change every few seconds, these key changes must be synchronized at the secure micro 1020 and CA modules 1010. Accordingly a ...access module 1603 for transmitting digital streams to legacy multimedia receivers. In addition, the system 1600 includes one or more alternative compression modules 1601 for **compressing the multimedia streams** using non-MPEG-2 compression algorithms (e.g., MPEG-4, RealVideo 8, ... etc) and/or one or more alternative encryption modules 1602 for encrypting the video content using non-standard **encryption formats** (e.g., Digital Video Broadcast (TV13") **encryption**, Secure Sockets Layer ("SSU) encryption, DES encryption or any other encryption format).

In one particular embodiment, the alternative encryption modules 1601 encrypt all portions of...within multimedia streams (i.e., if the I-f rames are encrypted) is set forth above.

The headend system 1600 may also modify the initial **compression format** of the **video streams**. For example, one or more MPEG-2 decoder modules 1606 may decompress incoming MPEG-2 **video streams**. Alternative **compression** module(s) 1601 may then re-**compress** the **video stream** using one or more of the alternate compression formats.

As indicated by the dotted line connecting MPEG-2 compression module 1604 with alternate encryption module... in Figure 16, video streams which are received at the headend in a compressed format may be input directly to alternate encryption module 1602 for **encryption**.

Transmitting each digital **video channel** in two (or more) independent compression/encryption formats as described above will consume a significant amount of network bandwidth. As such, in the embodiment illustrated...e., using both standard and alternate encryption techniques). Thus, as indicated by the bandwidth allocation 1720 in Figure 17, a selected group of basic digital **channels** are **simulcast** using both standard **encryption** (represented within allocation block 1726) and an alternative encryption (represented within allocation block 1728). The remaining basic digital channels are transmitted with no encryption, represented...and associated text). For example, a timestamp index may be generated for those programs which are stored on the mass storage device 1140 in an **encrypted format**.

Various additional **multimedia** processing and storage techniques may be implemented in connection with the embodiments of the invention described herein. For example, the advanced compression techniques described in modify the type of **compression** used for storing **multimedia streams**, to **compress** the streams in the background, ... etc). This application is assigned to the assignee of the present application.

One benefit of transmitting **multimedia channels** using more advanced **compression** techniques such as MPEG-4 or Real Video 8 is that these techniques can achieve approximately 2 to 3 times the compression of MPEG-2...by an A/D converter module 1930, an NTSC/PAL decoder module 1931 and a digital compression module 1932. However, in one embodiment, the analog **channels** may be digitally **simulcast** using alternate **compression** and/or encryption techniques and processed by the high bandwidth tuner 2130 along with the other digital content. As such, in this embodiment, a separate...centralized uplink facility 2210 may receive standard MPEG-2 video streams, decompress and recompress the video streams using MPEG-2 decompression modules and alternate **compression** modules, respectively, and **simulcast** the **streams** to the headend systems 2221-2224 in both MPEG2 compression and alternate compression formats (as described above with respect to the individual headend systems). Similarly...

22/3K/2 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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00963996

A SYSTEM AND METHOD FOR MULTIMEDIA CONTENT SIMULCAST

SYSTEME ET PROCEDE DE DIFFUSION SIMULTANEE DE CONTENU MULTIMEDIA

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Legal Representative:

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	Country	Number	Kind	Date
Patent	WO	200298133	A1	20021205
Application	WO	2002US15858		20020517
Priorities	US	2001871415		20010530

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04N-007/167	Main
H04N-005/00	

Publication Language: English

Filing Language: English

Fulltext word count: 12789

English Abstract:

A computer-implemented method is described for processing **multimedia channels** comprising: **encrypting** a first group of multimedia channels using a first type of encryption to produce a first group of **encrypted multimedia channels**; **encrypting** the first group of multimedia channels using a second type of encryption to produce a second group of **encrypted multimedia channels**; concurrently transmitting the first group of **encrypted multimedia channels** with the second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting the first group of **encrypted multimedia channels** and/or the second group of multimedia channels. Also described is a method comprising: receiving a plurality of channels from content providers at a cable...

Detailed Description:

...compression modules 101; conditional access ("CA") encryption modules 103 and 105; and quadrature amplitude modulation ("QAM") modules 110.

The MPEG-2 compression modules 101 **compress** any incoming **video streams** which have not already been compressed according to the MPEG-2 video compression standard. As indicated in Figure 1, if the video content has already... seamlessly integrate more advanced compression and encryption techniques as those techniques are developed.

SUMMARY OF THE INVENTION

A computer-implemented method is described for processing **multimedia channels** comprising: **encrypting** a first group of multimedia channels using a first type of encryption to produce a first group of **encrypted multimedia channels**; **encrypting** the first group of multimedia channels using a second type of encryption to produce a second group of **encrypted multimedia channels**; concurrently transmitting the first group of **encrypted multimedia channels** with the second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting

the first group of **encrypted multimedia channels** and/or the second group of multimedia channels.

Also described is a method comprising: receiving a plurality of channels from content providers at a cable...order to prevent users from viewing multimedia content which they do not have the right to view (e.g., subscription based channels, pay-per-view channels.... etc) the **multimedia content** is frequently **encrypted** using a series of encryption keys before

13

being transmitted. Accordingly, multimedia systems are generally equipped with conditional access ("CA") subsystems for decrypting the incoming...1025 used to decrypt the multimedia content are transmitted to the CA module 1010 from a secure micro unit 1020. Because the keys used to **encrypt the multimedia stream** typically change every few seconds, these key changes must be synchronized at the secure micro 1020 and CA modules 1010. Accordingly a key selection data...access module 1603 for transmitting digital streams to legacy multimedia receivers. In addition, the system 1600 includes one or more alternative compression modules 1601 for **compressing the multimedia streams** using non-UTEG-2 compression algorithms (e.g., MPEG-4, RealVideo 8, ... etc) and/or one or more alternative encryption modules 1602 for encrypting the video content using non-standard **encryption formats** (e.g., Digital Video Broadcast ("DVB") **encryption**, Secure Sockets ... I-frames within multimedia streams (i.e., if the Iframes are encrypted) is set forth above.

The headend system 1600 may also modify the initial **compression format** of the **video streams**. For example, one or more MPEG-2 decoder modules 1606 may decompress incoming MPEG-2 **video streams**. Alternative **compression module(s)** 1601 may then re-compress the **video stream** using one or more of the alternate compression formats.

As indicated by the dotted line connecting MPEG-2 compression module 1604 with alternate encryption module...in Figure 16, video streams which are received at the headend in a compressed format may be input directly to alternate encryption module 1602 for **encryption**.

Transmitting each digital **video channel** in two (or more) independent compression/encryption formats as described above will consume a significant amount of network bandwidth. As such, in the embodiment illustrated...e., using both standard and alternate encryption techniques). Thus, as indicated by the bandwidth allocation 1720 in Figure 17, a selected group of basic digital **channels** are **simulcast** using both standard **encryption** (represented within allocation block 1726) and an alternative encryption (represented within allocation block 1728). The remaining basic digital channels are transmitted with no encryption, represented...and associated text). For example, a timestamp index may be generated for those programs which are stored on the mass storage device 1140 in an **encrypted format**.

24

Various additional **multimedia** processing and storage techniques may be implemented in connection with the embodiments of the invention described herein. For example, the advanced compression techniques described in...entitled "APPARATUS AND METHOD FOR INTELLIGENT MULTIMEDIA COMPRESSION AND DISTRIBUTION" (Serial No. 09/721,556) may be employed (e.g., to modify the type of **compression** used for storing **multimedia streams**, to **compress** the streams in the background, ... etc). This application is assigned to the assignee of the present application.

One benefit of transmitting **multimedia channels** using more advanced **compression** techniques such as MTEG-4 or Real Video 8 is that these techniques can.

achieve approximately 2 to 3 times the compression of MPEG-2...by an A/D converter module 1930, an NTSC/PAL decoder module 1931 and a digital compression module 1932. However, in one embodiment, the analog **channels** may be digitally **simulcast** using alternate **compression** and/or encryption techniques and processed by the high bandwidth tuner 2130 along with the other digital content. As such, in this embodiment, a separate...the centralized uplink facility 2210 may receive standard NIPEG-2 video streams, decompress and recompress the video streams using NIPEG-2 decompression modules and alternate **compression** modules, respectively, and **simulcast** the **streams** to the headend systems 2221-2224 in both NIPEG2 compression and alternate compression formats (as described above with respect to the individual headend systems). Similarly...

Claims:

I. A computer-implemented method for processing **multimedia channels** comprising: **encrypting** a first group of multimedia channels using a first type of encryption to produce a first group of **encrypted multimedia channels**; **encrypting** said first group of multimedia channels using a second type of encryption to produce a second group of **encrypted multimedia channels**; concurrently transmitting said first group of **encrypted multimedia channels** with said second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting said first group of **encrypted multimedia channels** and/or said second group of multimedia channels.

2 The ...wherein said first group of multimedia channels are subscription based channels.

5 The method as in claim 1 further comprising:

compressing said first group of **encrypted multimedia channels** using a first **compression** type and said second group of **encrypted multimedia channels** using a second **compression** type.

6 The method as in claim 5 wherein said first compression ...as in claim 13 wherein said first-encrypted format is standard conditional access ("CA") encryption.

19 The method as in claim 18 wherein said second **encrypted format** is digital **video broadcast ("DVB") encryption**.

20 The method as in claim 13 wherein said premium cable channels transmitted in a first encrypted format are compressed in a first compression format...is

NVEG33. A method for deploying new multimedia receiver apparatuses comprising:encrypting channels using both conditional access ("CA") encryption and adifferent form of **encryption**; and**simulcasting** said **channels encrypted** in both CA encryption and said differentform of encryption;said channels encrypted using said different form of encryption being decryptable by said new multimedia...processor to perform the operations of: encrypting a first group of multimedia channels using a first type of encryption toproduce a first group of **encrypted multimedia channels**;34 **encrypting** said first group of multimedia channels using a second type ofencryption to produce a second group of **encrypted multimedia channels**;concurrently transmitting said first group of **encrypted multimedia channels** with said second group of multimedia channels to a plurality of multimedia subscribers having multimedia receivers capable of decrypting said first group of **encrypted multimedia channels** and/or said second group of multimedia channels.

30 The machine-readable medium as in claim 29 wherein said first type of encryption is standard cause said processor to perform the additional operations of:compressing said first group of **encrypted multimedia channels** using a first **compression** type and said second group of **encrypted multimedia channels** using a second **compression** type.

34 The machine-readable medium as in claim 33 wherein said first compression type is WEG

35 The machine-readable medium as in claim...cable channels and channels from said second subset of basic cable to said first subset of basic cable channels.

41 A headend system for processing **multimedia streams** comprising:

a first **encryption** module to encrypt a first plurality of multimedia streams usinga first type of encryption; anda second encryption module to encrypt said first plurality 36transmission to a plurality of multimedia subscribers having multimedia receivers capable of decrypting said first plurality of **multimedia channels encrypted** using either said first type of encryption or said second type of encryption.

42 The headend system as in claim 41 wherein said first type 42 further comprising:

a first compression module to employ a first type of compression on said first plurality of **multimedia streams encrypted** using said first compression type; and a second compression module to employ a second type of compression on said first plurality of **multimedia streams encrypted** using said second compression type.

46 The headend system as in claim 45 wherein said second compression module employs said second type of compression on of **encrypted multimedia streams** and said second plurality of unencrypted multimedia streams to two ore more other headend systems,said two or more other headend systems to broadcast said first plurality of **encrypted multimedia streams** and said second plurality of unencrypted multimedia streams to said plurality of multimedia subscribers.37. The headend system as in claim 47 wherein said centralized...encryption.

50 The headend system as in claim 41 further comprising:

a first decompression module to decompress one or more of said first plurality of **multimedia streams** previously **compressed** by content providers using said first compression type and to transmit said one or more **multimedia streams** to said second **compression** module for re-compression using said second compression type.5 1. A system comprising:a centralized uplink facility to receive a first plurality of multimedia...encrypt said first plurality of multimedia streams using a firsttype of encryption; anda plurality of headend systems to receive said first plurality of **multimedia streams encrypted** using said first type of encryption and to simulcast said first plurality of multimedia streams using both said first type of encryption and a second type of encryption, said first plurality of **multimedia streams encrypted** using said second type of encryption at either said centralized uplink facility or at said headend systems.

52 The system as in claim 51 wherein said first plurality of **multimedia streams** are **encrypted** using said ...compression and a second type of encryption with a second type of compression.

54 The system as in claim 53 wherein said first plurality of **multimedia streams** are **compressed** using said second type of

22/3K/3 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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00942520

A SYSTEM AND METHOD FOR EFFICIENTLY STORING AND PROCESSING MULTIMEDIA CONTENT
SYSTEME ET PROCEDE DE STOCKAGE ET DE TRAITEMENT EFFICACES DE CONTENUS MULTIMEDIA

Patent Applicant/Patent Assignee:

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	Country	Number	Kind	Date
Patent	WO	200276088	A2-A3	20020926
Application	WO	2002US8543		20020318
Priorities	US	2001277580		20010320
	US	2001877990		20010608

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[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04N-005/00	Main

Publication Language: English
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English Abstract:

A method is described comprising: receiving a broadcast signal containing a plurality of **encrypted multimedia channels**; storing the **encrypted multimedia channels** in a first hard drive partition; and decrypting one or more of the **encrypted multimedia channels** to generate one or more decrypted multimedia channels; and storing the decrypted multimedia channels to a second hard drive partition.

Detailed Description:

...order to prevent users from viewing multimedia content which they do not have the right to view (e.g., subscription based channels, pay-per-view **channels**, ... etc) the **multimedia** content is frequently **encrypted** using a series of encryption keys before

12

being transmitted. Accordingly, multimedia systems are generally equipped with conditional access ("CA") subsystems for decrypting the incoming the CA module 1010 from a secure micro unit 1020. Because the keys used to **encrypt** the **multimedia**

stream typically change every few seconds, these key changes must be synchronized at the secure micro 1020 and CA modules 1010. Accordingly a key selection data...

Claims:

1. A method comprising:

receiving a broadcast signal containing a plurality of **encrypted multimedia channels**; storing said **encrypted multimedia channels** in a first hard drive partition; and decrypting one or more of said **encrypted multimedia channels** to generate one or more decrypted multimedia channels; and storing said decrypted multimedia channels to a second hard drive partition.

2 The method as in... code stored thereon which, when executed by a machine, cause said machine to perform the operations of: receiving a broadcast signal containing a plurality of **encrypted multimedia channels**; storing said **encrypted multimedia channels** in a first hard drive partition; and decrypting one or more of said **encrypted multimedia channels** to generate one or more decrypted multimedia channels; and storing said decrypted multimedia channels to a second hard drive partition.

27 The article of...

22/3K/4 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

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00940384

A SYSTEM AND METHOD FOR PROCESSING CONDITIONAL ACCESS DATA

SYSTEME ET PROCEDE DE TRAITEMENT DE DONNEES CONDITIONNELLES D'ACCES

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	Country	Number	Kind	Date
Patent	WO	200273966	A2-A3	20020919
Application	WO	2002US5206		20020213
Priorities	US	2001790076		20010220

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04N-007/16	Main
H04N-005/913... H04N-007/24... H04N-007/167	

Publication Language: English

English Abstract:

A computer-implemented method is disclosed comprising: storing a first **encrypted multimedia stream** on a storage device as the stream is broadcast by a content provider; storing a stream of conditional access data on the storage device, the stream of conditional access data associated with the multimedia stream; and decrypting the first **encrypted multimedia stream** from a specified point within the **encrypted multimedia stream** using the **stream** of conditional access data, responsive to a user request to play back the **encrypted multimedia stream** from the specified point.

Detailed Description:

...subscription-based channels such as HBO and pay-per-view events).

SUMMARY OF THE INVENTION

A computer-implemented method is disclosed comprising: storing a first **encrypted multimedia stream** on a storage device as the stream is broadcast by a content provider; storing a stream of conditional access data on the storage device, the stream of conditional access data associated with the multimedia stream; and decrypting the first **encrypted multimedia stream** from a specified point within the **encrypted multimedia stream** using the **stream** of conditional access data, responsive to a user request to play back the **encrypted multimedia stream** from the specified point.

BRIEF DESCRIPTION OF THE DRAWINGS

A better understanding of the present invention can be obtained from the following detailed description in...order to prevent users from viewing multimedia content which they do not have the right to view (e.g., subscription based channels, pay-per-view **channels**,... etc) the **multimedia** content is frequently **encrypted** using a series of

13

encryption keys before being transmitted. Accordingly, multimedia systems are generally equipped with conditional access ("CA") subsystems for decrypting the incoming CA module 1010 from a secure micro unit 1020. Because the keys used to **encrypt the multimedia stream** typically change every few seconds, these key changes must be synchronized at the secure micro 1020 and CA modules 1010. Accordingly a key selection data...

Claims:

1 A computer-implemented method comprising:

storing a first **encrypted multimedia stream** on a storage device as said stream is broadcast by a content provider; storing a stream of conditional access data on said storage device, said stream of conditional access data associated with said multimedia stream; and decrypting said first **encrypted multimedia stream** from a specified point within said **encrypted multimedia stream** using said **stream** of conditional access data, responsive to a user request to play back said **encrypted multimedia stream** from said specified point.

2 The computer-implemented method as in claim 1 wherein decrypting further comprising: reading conditional access data from said stream of conditional access data from said specified point concurrently with reading said first **encrypted multimedia stream** from said specified point, said conditional access data identifying successive keys for decrypting corresponding successive portions of said first **encrypted multimedia stream**.

3 The method as in claim 2 further comprising:

providing said successive keys identified by said conditional access data to a conditional access module wherein said conditional access module uses said successive keys to decrypt corresponding successive portions of said first **encrypted multimedia stream** to produce a first decrypted multimedia stream.

4 The method as in claim 3 further comprising:

decoding said first decrypted multimedia stream using a specified... keys to said conditional access module responsive to reading said conditional access data.

7 The method as in claim 1 further comprising:

storing a second **encrypted multimedia stream** on said storage device at the same time as said first **encrypted multimedia stream** is stored to said storage device, wherein said stream of conditional access data contains conditional access data associated with said second **encrypted multimedia stream** as well as said first **multimedia stream**; decrypting said second **encrypted multimedia stream** using said **stream** of conditional access data responsive to a user request to play back said second **encrypted multimedia stream** from a specified point within said second **encrypted multimedia stream**.

8 The method as in claim 7 wherein said first and second multimedia streams are stored on said storage device in a multiplexed format.

9 ... claim 1 further comprising:

performing a lookup in a timestamp index using a specified point in time to identify said specified point within said first

encrypted multimedia stream to begin decrypting. 25. The method as in claim 10 wherein said timestamp index is comprised of a set of timestamps and corresponding address pointers, said address pointers identifying said specified point within said first **encrypted multimedia stream** from which to begin decryption.

12 The method as in claim 10 wherein said timestamp index is transmitted by said content provider.

13 The method... ..to I-frames within said multimedia stream.

14 The method as in claim 10 further comprising:

generating said timestamp index in real time as said first **encrypted multimedia stream** is received.

15 The method as in claim 14 further comprising:

identifying an I-frame within said first **encrypted multimedia stream** by decrypting said first **encrypted multimedia stream** from said specified point in time until an I-frame is reached.

16 The method as in claim 15 further comprising:

decrypting and decoding said... ..display beginning with said I-frame.

17 An apparatus for processing multimedia streams and conditional

access data comprising: a mass storage device to store a first **encrypted multimedia stream** and associated conditional access data; and selection logic to identify a first subset of said conditional access data to be used to decrypt said first **encrypted multimedia stream** from a specified point within said first **encrypted multimedia stream**.

18 The apparatus as in claim 17 further comprising:

a conditional access module to decrypt said first **encrypted multimedia stream** using said first subset of conditional access data.

19 The apparatus as in claim 17 further comprising:

a secure micro unit to read said first... ..and identify a series of decryption keys responsive thereto; and a conditional access module to use said series of decryption keys to decrypt said first **encrypted multimedia stream** from said specified point within said **encrypted multimedia stream**.

20 The apparatus as in claim 17 wherein said mass storage device stores

a second **encrypted multimedia stream** and wherein said selection logic identifies a second subset of said conditional access data to be used to decrypt said second **encrypted multimedia stream** from a specified point within said second **encrypted multimedia stream**.

21 The apparatus as in claim 20 further comprising:

a conditional access module to decrypt said first and second **encrypted multimedia streams** using said first and second subsets of conditional access data, respectively.

22 The apparatus as in claim 21 further comprising:

a secure micro unit to... ..keys responsive thereto; and a conditional access module to use said first and second series of decryption keys to decrypt said first and second **encrypted multimedia streams** from said specified points within said first and second **encrypted multimedia stream**.

23 The apparatus as in claim 20 further comprising

a multi-stream PID filter module to demultiplex said first multimedia stream from said second multimedia further comprising: a timestamp index used by said selection logic to identify said first specified point within said first **encrypted multimedia stream** to begin decrypting.

26 The apparatus as in claim 25 wherein said timestamp index is

comprised of a set of timestamps and corresponding address pointers, said address pointers identifying said first specified point within said first **encrypted multimedia stream** from which to begin decryption.

27 The apparatus as in claim 25 wherein said timestamp index is

transmitted by said content provider.

28 The apparatus... ..stream.

28. The apparatus as in claim 25 further comprising: timestamp index generation logic to generate said timestamp index in real time as said first **encrypted multimedia stream** is received from a content provider.

30 The apparatus as in claim 29 further comprising:

I-frame identification logic to identify an I-frame within said first **encrypted multimedia stream** by decrypting said first **encrypted multimedia stream** from said specified point in time until an I-frame is reached.

31 The apparatus as in claim 30 wherein once said I-frame identification

logic identifies said I-frame, said conditional access module decrypts said first **encrypted multimedia stream** from said I-frame onward, said apparatus further comprising: a decoder for decoding said first **encrypted multimedia stream** from said I-frame onward; and a display for rendering said first **encrypted multimedia stream**.

32 An article of manufacture including a sequence of instructions which,

when executed by a machine, cause said machine to perform the operations of: storing a first **encrypted multimedia stream** on a storage device as said stream is broadcast by a content provider; storing a stream of conditional access data on said storage device, said stream of conditional access data associated with said multimedia stream; and decrypting said first **encrypted multimedia stream** from a specified point within said **encrypted multimedia stream** using said stream of conditional access data,, responsive to a user request to play back said **encrypted multimedia stream** from said specified point. 29. The article of manufacture as in claim 32 wherein decrypting further comprising: reading conditional access data from said stream of conditional

access data from said specified point concurrently with reading said first **encrypted multimedia stream** from said specified point, said conditional access data identifying successive keys for decrypting corresponding successive portions of said first

encrypted multimedia stream.

34 The article of manufacture as in claim 33 including additional instructions which, when executed by said machine, cause said machine to perform the operations of: reading said conditional access data to a conditional access module wherein said conditional access module uses said successive keys to decrypt corresponding successive portions of said first **encrypted multimedia stream** to produce a first decrypted multimedia stream.

35 The article of manufacture as in claim 34 including additional instructions which, when executed by said machine, cause said machine to perform the operations of: storing a second **encrypted multimedia stream** on said storage device at the same time as said first **encrypted multimedia stream** is stored to said storage device, wherein said stream of conditional access data contains conditional access data associated with said second **encrypted multimedia stream** as well as said first **multimedia stream**; decrypting said second **encrypted multimedia stream** using said stream of conditional access data responsive to a user request to play back said second **encrypted multimedia stream** from a specified point within said second **encrypted multimedia stream**.

39 The article of manufacture as in claim 38 wherein said first and second multimedia streams are stored on said storage device in a multiplexed manner; performing the operations of: performing a lookup in a timestamp index using a specified point in time to identify said specified point within said first **encrypted multimedia stream** to begin decrypting.

42 The article of manufacture as in claim 41 wherein said timestamp index is comprised of a set of timestamps and corresponding address pointers, said address pointers identifying said specified point within said first **encrypted multimedia stream** from which to begin decryption.

43 The article of manufacture as in claim 41 wherein said timestamp index is transmitted by said content provider.

44 The article of manufacture as in claim 41 including additional instructions which, when executed by said machine, cause said machine to perform the operations of: generating said timestamp index in real time as said first **encrypted multimedia stream** is received.

46 The article of manufacture as in claim 45 including additional instructions which, when executed by said machine, cause said machine to perform the operations of: identifying an I-frame within said first **encrypted multimedia stream** by decrypting said first **encrypted multimedia stream** from said specified point in time until an I-frame is reached.

47 The article of manufacture as in claim 46 including additional instructions which beginning with said I-frame, comprising: receiving a request to play back an **encrypted multimedia stream** stored on a mass storage device, said request including a point in time from which said **encrypted multimedia stream** is to be played; performing a lookup in a timestamp index to identify an address pointer identifying a point within said **encrypted multimedia stream** corresponding to said point in time; and decrypting said **encrypted multimedia stream** from said point within said multimedia stream.

49 The method as in claim 48 further comprising: generating a timestamp index in real time as said **encrypted multimedia stream** is being stored on said mass storage device.

50 The method as in claim 48 further comprising: receiving said timestamp index from a content provider providing said multimedia stream.

51 The method as in claim 48 further comprising: if said address pointer identifies a point within said **encrypted multimedia stream** which is not an I-frame, decrypting said **encrypted multimedia stream** until an I-frame is reached; and decrypting, decoding and rendering said **encrypted multimedia stream** on a display from said I-frame onward.

52 The method as in claim 48 further comprising: receiving a request to fast-forward through said **encrypted multimedia stream**; and decrypting, decoding and displaying a series of I-frames in succession in response to said fast-forward request, said I-frames being decrypted...

22/3K/5 (Item 5 from file: 349) [Links](#)

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00934001

A SYSTEM AND METHOD FOR PROCESSING MULTIPLE BROADCAST MULTIMEDIA STREAMS
SYSTEME ET PROCEDE DE TRAITEMENT DE FLUX RADIO MULTIMEDIA MULTIPLE

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- **MALLIE Michael J(et al)(agent)**
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Patent	WO	200267571	A2-A3	20020829
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Priorities	US	2001789861		20010220

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[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Publication Language: English

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Detailed Description:

...order to prevent users from viewing multimedia content which they do not have the right to view (e.g., subscription based channels, pay-per-view channels.... etc) the **multimedia** content is frequently **encrypted** using a series of encryption keys before being transmitted. Accordingly, -multimedia systems are generally equipped with conditional access ("CA") subsystems for decrypting the incoming multimedia... ..to decrypt the multimedia content are transmitted to the CA module 1 01 0 from a secure micro unit 1020. Because the keys used to **encrypt the multimedia stream** typically change every few seconds, these key changes must be synchronized at the secure micro 1020 and CA modules 1010. Accordingly a key selection data...

22/3K/6 (Item 6 from file: 349) [Links](#)

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00913802

APPARATUS AND METHOD FOR VIDEO COMPRESSION

APPAREIL ET PROCEDE DE COMPRESSION VIDEO

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	Country	Number	Kind	Date
Patent	WO	200247394	A1	20020613
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Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

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GR; IE; IT; LU; MC; NL; PT; SE; TR;

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ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
H04N-007/50	Main
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Publication Language: English
Filing Language: English
Fulltext word count: 7024

Detailed Description:

...are well known in the art) to extract the underlying digital content. As indicated in Figure 1b, the digital content is typically an MPEG-2 **multimedia stream** with a **compression** ratio selected by the cable TV or satellite company broadcasting the signal. The MPEG-2 data is stored on the mass storage device 120 from...M[PEG-2 module 130 includes DCT logic, the DCT portion of the MPEG-2 decompression module 130 may be used to decompress the DV25-**compressed video stream**.

Accordingly, if DV25 **compression** is used, a separate light decompression module 420 may not be necessary, thereby further reducing system cost. In addition, the CPU may work in the... ..Figure 5 includes a QAM module 150 and a conditional access module 160 for extracting the underlying MPEG-2 data stream 170. The MPEG-2 **multimedia stream** (or other **compressed** data stream) is initially stored on the mass storage device 120 as in prior systems. Unlike prior systems, however, the system illustrated in Figure...

Claims:

...long term multimedia buffer
on said mass storage device.

2 The multimedia apparatus as in claim 1 wherein said compression logic is further configured to:stream said **compressed multimedia** content from said long termmultimedia buffer to a decompression module and then to a multimediarendering device responsive to a user request to view...

22/3K/7 (Item 7 from file: 349) [Links](#)

PCT FULLTEXT

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00909810

MULTIMEDIA TRANSFER SYSTEM

SYSTEME DE TRANSFERT MULTIMEDIA

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Patent	WO	200243395	A2-A3	20020530
Application	WO	2001US44090		20011116
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GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
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Main International Patent Classes (Version 7):

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H04N-005/00	Main
Publication Language: English	
Filing Language: English	
Fulltext word count: 5371	

Claims:

...by said media readers and encoding of said data by said encoder modules.

4 The multimedia transfer apparatus as in claim 3 wherein said transfer
program schedules reading and **encoding** in parallel.

5 The transfer apparatus as in claim 1 wherein said media readers are
CD drives adapted to read data from CDs.

6 The...

22/3K/8 (Item 8 from file: 349) [Links](#)

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00879936

SYSTEM AND METHOD FOR SCALING A VIDEO SIGNAL

SYSTEME ET PROCEDE DE MISE A L'ECHELLE D'UN SIGNAL VIDEO

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Patent	WO	200213507	A2-A3	20020214
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[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Publication Language: English
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Fulltext word count: 5118

Detailed Description:

...screens are
capable of displaying standard NTSC images.

In order to take advantage of the improved aspect ratio of a wide screen system, several different **video encoding formats** currently exist, each of which use different horizontal and vertical scaling variables for storing the underlying video content. Two general types of scaling formats exist ... displayed (i.e., 16:9 in the case of most wide screen systems).

Figure 3 illustrates some of the concepts associated with anamorphic scaling. To **encode video** in an anamorphic **format**, the image may be stretched in the vertical direction to include more video

data than the total number of scan lines available on a standard...anamorphic) for a video is illustrated in Figure 11. In this embodiment, the appropriate H/V scaling variables 1130 are transmitted as part of the **encoded video stream** (e.g., an MPEG-2 video stream). A video player/decoder 1120 decodes the video stream and separates the underlying video data 1140 from the...

22/3K/9 (Item 9 from file: 349) [Links](#)

PCT FULLTEXT

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00782308

SYSTEM AND METHOD FOR PERFORMING INTERLACED-TO-PROGRESSIVE CONVERSION USING INTERFRAME MOTION DATA

SYSTEME ET PROCEDE DE REALISATION D'UNE CONVERSION ENTRELACEE EN UNE CONVERSION PROGRESSIVE AU MOYEN DE DONNEES DE MOUVEMENT INTERTRAME

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Patent	WO	200115442	A1	20010301
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[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Publication Language: English
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Fulltext word count: 5221

Detailed Description:

...motion compensation data is used by a de-interlace unit in one embodiment of the invention.

FIG. 5 illustrates the general type of interframe data **encoded** into a **video data stream** in one embodiment of the invention.

FIG. 6 illustrates a method implemented in accordance with one embodiment of the invention.

FIG. 7 illustrates a frame...

22/3K/10 (Item 10 from file: 349) [Links](#)

PCT FULLTEXT

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00734005

SYSTEM FOR TRANSMITTING DIGITAL DATA THROUGH A LOSSY CHANNEL

SYSTEME POUR TRANSMETTRE DES DONNEES NUMERIQUES A TRAVERS UN CANAL A PERTES

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Detailed Description:

...period of time to determine the number of coefficients and levels used for encoding.

It should be understood that the original digital data to be **encoded** in the **NPEG video stream** typically will be **compressed** using a standard compression algorithm. This is desirable because the NPEG encoding process does not compress the underlying data or take advantage of any patterns...

Claims:

1 A method of transmitting digital data through an **WEG compressed video channel**, comprising: providing a set of digital data; creating a mapping between the digital data in the set of digital data and NTEG run-level codes..